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P. De Benedictis
1965-1966

Alaska

Catalogue

#434-~~439~~ 554

Journal

1965
- Transect data
- Daily observational data

1966
- Daily observational data
- Habitat and climate data
- Feeding observation and census plots

P. De Benedictis
1965-1966

Alaska

Catalogue

#434-~~439~~ 554

P. DeBenedictis
1965

Catalog

Arctic Research Lab, Barrow, Alaska

June 15, 1965 (collected by S. Hellman)

434 ♂ (im. sk) *Calidris alba* mod. fat 49.1 g. testis 17×8 mm no molt

Barrow, Alaska

June 19, 1965 (collector F. A. Pitelka)

435 ♀ (im. sk) *Calidris fuscicollis* 44.1 g mod. fat (largest ova 3 mm) no body molt no brood patch.

June 28, 1965 (found dead)

(DBC/ARP) SKEL 435 ♀ imm. *Nyctea scandiaca* 1460 g. no fat ovary inactive

June 29, 1965

436 ♀ (imm. sk) *Phalaropus fulicarius* 54.0 g little fat (largest ova up to 6 mm: ?2 foll.)
legs ochre, feet webs & lobes dull yellow; bill yellow-orange, tip dark brown;
iris black

(NOT SAVED) ♀ (imm. sk) *P. fulicarius* 46.6 g little fat (largest ova 2 mm)

July 22, 1964

mummified.
437 sex? *Wilsonia canadensis* pick up, dead several days.

10 mi S Barrow, Alaska

July 25, 1965

438. ♂ (skull unossified) *Limnodromus scolopaceus* 13.1 gm. little fat. testis 1 mm.
legs, bill blue gray, soles of feet yellowish; eye black, yolk in abdomen.

439. ♀ (skull unossified) *Limnodromus scolopaceus* 12.9 gm. little fat ovary inactive
legs pale blue gray, bill blue gray; feet pads yellowish; eye black; yolk in abdomen

De Benedictis
1966

Catalogue - 1

Alaska

Meade River Coal Mine, 157°25'W, 70°[illegible]'N.

~~[illegible]~~ #

21 May 1966 (pickup, possibly carried to this locality by a native)

+ OHMZ skeleton 435 ♂ ad. sk. Oenanthe oenanthe 19.7 gm. no fat. testis 6×4 mm. wing 102 mm (chord), tail 58 mm. (one leg broken; not shot)

22 May 1966

Skelt. + crop. OHMZ 436 ♂ ad. sk. Lagopus lagopus 686 gm. mod. fat. testes [illegible] mm. molt head, neck, upper tail [illegible] crop. 21 gms.

23 May 1966

These birds eaten for dinner; very good but tough.

— ♂ Lagopus lagopus 598 gm. no fat testis 15/16 heavy head molt, no body molt. Head, neck brown, body white; crop contents: leaves (mostly ~~[illegible]~~ Dryas) (green).

← ♂ Lagopus lagopus 720 gm. little fat (cervical tract), testis 15×8 mm. moderate head and neck molt [only]. Head neck brown, incomplete on face. rest plumage white. crop contents 75% green ~~[illegible]~~ Dryas lvs., 20% willow buds, rest misc. lvs.

— ♀ Lagopus lagopus 569 gm. little fat, mostly cervical tract. largest ova 5,5,4 mm diam. Head with 1/8 brown feathers. moderate molt head, neck, scapular tracts. crop content green ~~[illegible]~~ Dryas leaves (about 25 lvs only).

— ♀ Lagopus lagopus. 548 gm. little fat; largest ova 4,4,4,4 mm. head neck, [illegible] c. 1/8 brown. moderate molt, head, cervical, scapular and vertebral tracts; crop empty.

P. DeBenedictis
1966

Catalogue - 2

Meade River Coal Mine, 157°25'W, 70°27'N, Alaska

29 May 1966

> (skel.) UMMZ 437 ♂ Calidris mauri 31.4 gm. very fat. testis R 5x4 L 11x5 mm feed observation 002
no molt middle toe 20 mm with claw. ~~30 May 1966~~

30 May 1966

> (skel.) UMMZ 438 ♂ Pluvialis dominica 136.8 gm. very fat ~~testis~~ feed. observation 008
testes R 12x6 L 18x10 mm. no molt intestine, pylorus to anus 55 cm. colon 5 cm.

31 May 1966

> ~~UMMZ~~ MVZ 439 ♂ adult Dendroica striata 11.5 gm. no fat testes R 3x3 mm L 8x6 mm
light dorsal molt legs and lower mandible yellow.
Stomach contents 2+ "house flys"

2 June 1966

> skel. UMMZ 440 ♀ adult Motacilla flava 17.0 gm. very fat largest ova 4 mm. oviducts enlarged
slightly yolky: venter bare but no brood patch. no molt
stomach contents: ? small ad. dipterans ~~[illegible]~~

~~[illegible]~~ UMMZ >N 441 ♂ imm. sk. Calidris melanotos 82.4 gm. little fat except throat. feeding observation 077
testes R 12x5 L 14x6 mm. no molt no B.P.

3 June 1966

> skel 442 ♂ Limnodromus scolopaceus 95.0 gm. testes R [illegible] feeding observation 085
no molt no brood patch heavy fat

> UMMZ 443 ♂ imm. skull Limnodromus scolopaceus 112.0 gm. light fat testes 12x5 L 10x6 mm feeding observation 092 mate to 444 PDeB.
no molt no brood patch

> UMMZ 444 ♀ imm. skull Limnodromus scolopaceus 138.5 gm light fat. feeding observation 093 mate to 443 PDeB.
no B.Patch. no molt. largest ova 9,4,4,4,3 mm. oviducts enlarged

(not saved) 445 ♀ Arenaria interpres 102 gm. moderate fat. largest feeding observation 091
ova 4 mm. oviducts enlarged. No brood patch. no molt

P. DeBenedictis
1966

Catalogue - 3

Meade River Coal Mine, 157°25'N, 70°27'N, Alaska

3 June 1966

UMMZ 446 — ♂ imm. sk. *Calidris melanotos* (097 feeding observation) 108.2 gm. light fat except neck. testes L 16x8, R 12x7 mm. no molt; no brood patch.

447 — ♀ imm. sk. *Calidris alpina* (feeding observation 094) 70.1 gm very fat. largest ova 9.33 mm. oviduct enlarged. brood patch 2/3 developed. no molt

(NOT SAVED) 448 — ♂ imm. sk. *Calidris pusilla* (feeding observation 094) 26.4 gm mod. fat. testis R 5x5, L 7x5 mm. brood patch 2/3 developed, no molt.

6 June 1966

UMMZ SKEL. 449 — ♂ im. sk. *Calidris mauri* (feed. on disturbed ... see sp. ...). 28.0 gm. mod. fat. no molt. (singing) testes R 5x4, L ...

8 June 1966

UMMZ SKEL. 450 — ♂ ad. *Stercorarius longicaudus* 285 gm very fat. testes R 14x5, L 12x8. no molt, no brood patch. stomach contents - meat + bone scraps from village-dump. bill, feet, knees black, legs pale blue.

11 June 1966

UMMZ 451 — ♂ imm. sk. *Calidris alpina* (feeding observation 213) 53.4 gm. mod. fat. testes R 9x4, L 12x6 mm. brood patch no molt. Feeding observation No. 213

13 June 1966

452 — ♀ im. sk. *Calidris melanotos* (feeding observation 235) 77.6 gm. light fat. shelled egg in oviduct. 2 follicles, largest ova 6 mm. ~~xxxxxxxx~~. brood patch 3/4's developed. No molt. legs greenish yellow, bill black base lower mandible horn-colored.

453 — ♀ imm. sk. *Calidris pusillus* (feeding observation 239) 34.7 gm. light fat; unshell egg in oviduct, (wt 3.9 gm) fully form. 12 ova free in body cavity; largest ova 7 mm. 2 follicles. brood patch 7/8 devel. no molt. bill + legs black.

P. DeBenedictis
1966

Catalogue - 4

Meade River Coal Mine, 157°25'W, 70°27'N, Alask.

13 June 1963

UMMZ 454 ♂ imm. sk. feeding observation 225 *Calidris pusillus* 22.3 gm. light fat testes R 5×4 L 6×4 mm
brood patch half developed no molt.

UMMZ 455 ♀ ad. skull *Passerculus sandwichensis* 17.8 gm. light fat.
largest ova 3 mm, yolky, no molt. brood patch half developed.

19 June 1966

UMMZ SKEL. 456 ♀ imm. sk. *Pluvialis dominica* 158.5 gm. light fat.
4 ruptured follicles, largest ova. 8 mm. no molt. well developed
brood patch. legs, bill black (in group of 4 birds, not feeding)
intestine 56 cm. stomach to anus.

~~457~~ UMMZ SKEL 457 ♂ imm. sk. *Pluvialis dominica* 131 gm. light fat. testes R 6×5 L 12×5
well developed brood patch; light molt ~~scapular~~ tract, upper tail
coverts; legs, bill black. (in group 4 birds, not feeding
intestine 52 cm. stomach to anus. wing 180 mm

24 June 1966

UMMZ 458 ♀ ad. sk. *Calcarius lapponicus* 35.6 gm. (feathers wet) moderate fat.
oviduct enlarged, 16 cm.; largest ova 7.8 mm dia, 1 follicle, (prob. 2nd clutch)
brood patch: no molt. bill pale yellow, tip dark brown, legs black

25 June 1966

skel. UMMZ 459 ♀ ad. skull *Acanthis hornemanni* 14.3 gm. mod. fat. brood patch
largest ova 2 mm. oviduct slightly enlarged, 4.5 cm. long.
phenotypic approach to *flammea*. crop contents 7 small (4 mm)
"fly" larvae

P. DeBenedictis
1966

Catalogue - 5

Meade River Coal Mine. 157° 25' W, 70° 27' N, Alaska

25 June, 1966

UMMZ 460 ♀ im.sk. *Phalaropus fulicarius* 61.6 gm. light fat. no brood patch no molt. 2(?4) old, long regressed follicles, largest ova 7 mm.; oviduct enlarged. 15 cm. long. (anus not expanded). bill yellow, tip blackish, legs yellow-green, webs yellow. sitting in pond, not feeding when collected.

UMMZ 461 ♂ im.sk. *Phalaropus fulicarius* 48.7 gm. light fat. brood patch. no molt. testes R 9×5, L 12×6 mm. bill yellow, tip black, legs yellow green, webs yellow. Pf♂ 11A pond 6" pw 1/0 m 8/6 pk - feed details -

SKEL. UMMZ 462. ♂ im.sk. *Phalaropus fulicarius* 53.6 gm. light. brood patch. no molt. testes R 9×6, L 14×7 mm. bill yellow, tip black, legs yellow-green, webs yellow Pf♂ 10 A pond. 6" pw 1/0 m 12/10 pk - note - chasing 2nd male out of pool.

UMMZ 463. ♀ im.sk *Lobipes lobatus* 32.1 gm. light fat. no brood patch; light molt head and neck. anus and oviduct slightly enlarged, oviduct 5 cm. long. 4+ regressed follicles, largest ova 4 mm. shot from flock 8 ♀s. resting on pond 4" p.w., 1/0 m 6/4 not feeding? 11 A.M.

UMMZ 464 ♀ im.sk. *Lobipes lobatus* 32.5 gm. light fat. no brood patch light molt head and neck. oviduct slightly enlarged, 5.5 cm. long. 4 regressed follicles + 4+ regressed ova; largest ova 2 mm. shot from flock 8 ♀s. feeding data as 463.

stomach only 465 ♀ *Calidris melanotos* 62.2 gm. light fat. no molt. brood patch oviduct regressed. 5 cm. 4 regressed follicles, largest ova 4 mm. (NOTE: GAVE strong distraction display before shot. - not feeding except 1 jab in pond - 2" pw 1/0 m 4/2 - 11 A.M.

P. DeBenedictis

Catalogue - 6

Meade River Coal Mine, 157°25'W, 70°27'N. Alaska

~~25~~ 25 June 1966

(cut up slightly)

stomach only 466 ♀ imm.sk. Calidris melanotos 60 gm light fat. no molt. brood patch oviducts mod. enlarged, 6 cm. (?4) regressed follicles, largest ova 3 mm.
m♀ pond sat 2/0 m 5/3 ? j. 10 A.M.

stomach only 467 ♂ im.sk. Calidris pusillus 22.9 gm. light fat. no molt. brood patch testes R 3×5 L 8×5 mm. , not feeding when shot.

stomach only 468 ♀ im. sk. Calidris pusillus 36.3 gm light fat no molt; brood patch 7/8 developed; largest ova 15, 10 mm dia, two resent follicles.
oviduct 17.5 cm. part shelled egg in oviduct;
pond >1" pw 2/0 m 4/3 pk 10 AM.

SKEL. > UMMZ 469 ♀ im.sh Calidris pusillus 24.8 gm. light fat. no molt brood patch 3+ regressed follicles, largest ova 2 mm. oviduct slight enlarged, 6 cm.
not feeding when collected

>N UMMZ 470 ♂ im. sk. Calidris pusillus 24.6 gm. light fat. light molt, crown; brood patch
testes R 4×4 L shotout. not feeding when shot.

>N UMMZ 471 ♀ imm.sk Calidris pusillus 24. 8 gm. light fat light molt, crown. brood patch
several old follicles, largest ova 4 mm. Oviduct 4 cm. long. incubating 4 eggs. (see notes). not feeding when shot.

>UMMZ N 472 ♂ Gavia stellata 21~~3~~50± gm.. moderate fat testes 22×10 no molt.
iris red brown; legs black externally, blue-white internally
bill black, culmen yellow-brown. Caught in fish net by Ray

26 June 1966

>N UMMZ MVZ 473 ♀ ad. skull Motacilla flava 17.9 gm. mod. fat. no molt brood patch incubating 5 eggs, largest ova 2 mm, oviduct reduced.

>NEST UMMZ 474 Motacilla flava - nest + 5 eggs - nest of ♀ 473 P.DeB.

P. DeBenedictis
1966

Catalogue - 7
~~Journal~~

Meade River Coal Mine, 157°25'W, 70°29'N, Alaska

27 June 1966

UMMZ
> SKEL 474 ♂ imm. sk *Calidris alpina* 56.4 gm. mod. fat. brood patch. no body molt. primary 5 in sheath, 6-10 2/3 grown. testes R 5×4 L 8×5 mm. not feeding when collected.

UMMZ
> SKEL 475 ♂ im. skull *Limnodromus scolopaceus* 113.0 gm. heavy fat. poorly developed brood patch, light molt cervical tract. testes R 5×4 L 10×4 mm.
11 A pond 2" pw 2/0 m 5/4 j.

STOMACH ONLY 476 ♂ imm. sk *Calidris pusilla* 23.5 gm moderate fat. brood patch light molt crown, cervical tract. testes 5×4 4×4 mm.
not feeding when collected. flew in from caves (?) pool.
bill length, no ardent.

STOMACH ONLY 477 ♂ im. sk *Calidris pusilla* 26.8 gm mod. fat. brood patch light molt crown, cervical tract. testes shot out
10 A pond sat 7/1 salix m 4/4 pk

STOMACH ONLY 478 ♀ im. skull *Calidris pusilla* 24.7 gm. light fat. brood patch light molt crown, cervical tract. 4+ well regressed follicles, largest ova 2 mm. oviduct regressed, 4 cm long.
10 A ~~pond~~ pond sat 1/0 m 4/6 pk.

> N - MMZ 479 ♂ imm. sk *Phalaropus fulicarius*. 50.4 gm. light fat. no molt. [illegible] patch testes R 9×5 L 10×5 mm.
noon pond 1" 1/0 m 6/2 pk - preening when shot

UMMZ
> N 480 ♂ im. sk. *Phalaropus fulicarius* 47.0 gm. light fat. no molt. brood patch. testes R 9×4 L 10×4 mm chasing ♀ 481 out of its territory. not feeding when shot.

UMMZ
> N 481 ♀ im. sk *Phalaropus fulicarius* 56.4 gm light fat. no molt. no brood patch 4 follicles, largest ova 4 mm. Oviducts moderately enlarged, 7 cm. ? mate To 480 P.DeB.
Pond 2" pw 1/0 m 7/3 pk norm.

P. DeBenedictis
1966

Catalogue - 8

Meade River Coal Mine, 157°25'W, 70°28'N, Alaska
5 July 1966

UMMZ 482 ♂ ad. skull *Acanthis hornemanni*. 14.3 gm. mod. fat. testes R 7×6, L 7×6 mm
no molt no brood patch. strong cloacal protuberance

FLAT SKIN + SKEL UMMZ 483 ♂ ad. skull *Acanthis hornemanni* 15.7 gm. mod. fat. testes 7×5 mm
venter bare, not vascularized. strong cloacal protuberance. no molt.
no pink on breast, flanks & undertail coverts lightly streaked,
rump pink, heavily streaked.

STOMACH ONLY 484 ♂ im. skull *Phalaropus fulicarius* 42.6 gm. slight fat. testes R 7×5, L 9×6 mm
no molt. brood patch. feeding observation →
noon pond 4" pw. 1/0 m 10/8 pk. ..

STOMACH ONLY 485 ♂ im. skull *Phalaropus fulicarius* 50.9 gm. moderate fat. testes R 8×5, L 10×5 mm
no molt. brood patch. resting on sphagnum mound in lake
with ♀ 486 P.DeB. when shot.

UMMZ SKEL 486 ♀ im. skull *Phalaropus fulicarius* 67.9 gm. mod. fat. no molt. no
brood patch. ova 15mm in upper part oviduct, largest ova 8,5 mm.
(+7,4+ old foll.)
two follicles. oviduct enlarged, 20 cm. long. resting on sphagnum
mound in lake with ♂ 485 when shot.

STOMACH ONLY 487 ♀ im. skull *Calidris melanotos* 76.4 gm. mod. fat. no molt.
brood patch. largest ova 3½ mm. folls. not ~~distinguisha~~ distinct. oviduct 9 cm. long
noon pond pw 2" 1/0 m 10/8 ?

UMMZ SKEL 488 ♀ im. skull *Calidris melanotos*. 62.0 gm. moderate fat. no molt
brood patch. largest ova 2 mm, follicles not dist. oviduct
small. first seen in shallow *Carex* marsh, 25% grass cover,
2" water. Shot on *Cornicularia* - *Cetraria* flat where feeding.
f. d ½ *Ledum* m1 3"grass >1 ->1 pk

J. De Benedictis
1966

Catalogue - 9

Meade River Coal Mine, 157°25'W, 70°2? 'N, Alaska
5 July 1966

STOMACH ONLY 489 ♂ im. skull *Calidris pusillus* 24.9 gm light fat. testes R 3×2 L 4×2 mm brood patch. Moderate molt, head + neck, light body molt. not feeding when collected

UMMZ SKEL 490 ♀ im. skull *Calidris pusillus* 24.7 gm. light fat. brood patch. moderate head, neck + body molt. largest ova 1 mm, several well regressed follicles, oviduct reduced, 4 cm. long. not feeding when collected.

stomach only 491 ♂ im. skull *Calidris pusillus* 27.7 gm. moderate fat. brood patch moderate head + neck molt, light body molt. testes (one shot) 2×2 m on Cornicularia-Cetraria flat when shot, not certainly feeding

stomach only 492 ♀ im. skull *Calidris pusillus* 25.1 gm light fat. brood patch. moderate molt, head, neck, + body. largest ova 2 mm, sev. well regressed follicles, oviduct reduced, 4 cm long. not feeding when collected

Stomach only 493 ♀ im. skull *Calidris pusillus* 26.6 gm. light fat. brood patch, moderate molt head, neck, body. largest ova 2 mm, several regressed follicles, oviduct reduced, 4± cm. long - feeding data 10 A.M. flat wet 1/1 Salix moss-lichen 4" grass >1 plk.

Stomach only 494 ♂ im. skull *Calidris pusillus* 26.5 gm light fat. testes R 2×2 L 4×2 mm. brood patch. Mod. molt head, light molt neck, anterior body feeding data
10 A.M. flat wet 1/3 Salix Dryas ml + sand 4" grass >1/21 plk

Stomach only 495 ♂ im. skull *Calidris pusillus* 26.4 gm. moderate fat. testes R 3×2 L 5×2 mm brood patch mod. molt head and neck, no body molt. feeding data
10 A.M. flat dry 1/2 Cassiope Salix pl ? ml grass >1/>1 plk [Cornicularia - Cetraria flat]

stomach only 496 ♀ im. skull *Calidris pusillus* 26.2 gm light fat. brood patch. moderate molt head + neck, light molt anterior body. largest ova 1 mm, several regressed follicles Feeding on mud flat along Meade River, noon. few short grass stalks in area.

P. De Benedictis
1966

Meade River Coal Mine, 157°25'W, 70°27'N. Alaska

6 July 1966

>N UMMZ 496 ♂ 9 days old Passerculus sandwichensis 15.3 gm. light fat. testes 2mm. taken from nest; hatched 28 June

7 July 1966

stomach only 497 ♀ imm. skull Calidris melanotos 66.3 gm. moderate fat. no molt. brood patch. largest ova 2mm. follicles indistinct. oviduct small. not feeding when collected, at edge of Carex pool - Eriophorum flat area, scolding with a 2nd bird.

8 July 1966

>N UMMZ 498 ♀ juv. Motacilla flava. 14.8 gm. light fat. ovary ○. ~~gape~~ mouth lining orange. legs + bill pale flesh, gape yellow. hatched 1 or 2 July

9 July 1966

>N UMMZ 499 ♀ chick Calidris melanotos 12.6 gm. no fat. ovary ○. no yolk sac. eye dark. legs dull yellow, grayer laterally. bill black, base horn.

>N UMMZ 500 ♀ juv. Zonotrichia leucophrys 19.9 gm. light fat. ovary ○ legs flesh, bill dark brown, gape yellow, mouth lining pink hatched 1 or 2 July. taken from nest

10 July 1966

>N UMMZ 501 ♂ juv. Motacilla flava 16.2 gm. light fat. testes 2mm. legs flesh. bill light gray-brown, gape yellow, mouth lining orange. taken from nest, hatched 1 or 2 July. Stomach content: 2+ ad. tipulids, 5+ mosquitoes, ? other dipterans.

P. DeBenedictis
1966

Catalogue - 11

Meade River Coal Mine, 157° 27' W, 70° 27' N, Alaska

11 July 1966

UMMZ
>N 502 ♂ chick *Calidris mauri* 5.6 gm. light fat. testes 1 mm. bill, legs dark gray. small yolk sac. probably less than 1 day old. with 3 other chicks. (502-503)

UMMZ
>N 503 ♀ chick *Calidris mauri* 5.1 gm. light fat ovary ○ bill, legs dark gray. small yolk sac. probably less than 1 day old with 3 other chicks (501, 504)

>N 504 ♂ chick *Calidris mauri* 5.2 gm. light fat testes 1 mm. bill, legs, dark gray. small yolk sac. probably less than 1 day old with 3 other chick (501, 502)

UMMZ
>N 505 ♀ chick *Lagopus lagopus* 27.3 gm. no fat. ovary ○ probably from nest that hatch 7 or 8 July. Stomach contents - ~~[unidentified green seeds]~~ fruiting capsules of moss [ ] no insect material.

14 July 1966

UMMZ
>N 506 ♀ chick *Calidris pusillus* 12.2 gm. no fat ovary ○ (only chick found) attended by ♂ (PDeB 509). bill, legs dark gray. found on dyke in pond sat. 2/1 Rubus redum m1 0/1 manguard with grass [1/1 Salix m 8/6] 6" effective height.

UMMZ
>N 507 ♂ chick *Calidris melanotos* 11.6 gm. no fat testes L 1.0 R 1.0 mm legs dull yellow gray laterally. small yolk sac. with 508 P.DeB. [young of 512 P.D.B]. found on dyke at pond sat 2/2 Salix m1 10/6

UMMZ
>N 508 ♂ chick *Calidris melanotos* 10.0 gm no fat testes R 0.8 L 1.0 mm. legs dark yellow, gray laterally. small yolk sac. with 507 P.DeB.

stomach only 509 ♂ imm. ad. *Calidris pusillus* 25.4 gm. light fat. testes 3 mm. brood patch re-feathering. light molt all body tracts. feeding dark mound in pond 2/1 Rubus redum m1 .51 pk. 4 PM.

PDB

Catalogue - 12

Meade River Coal Mine, 157°25' W, 70°57' N, Alaska

14 July 1966

stomach only 510 ♂ im. skull *Calidris pusillus* 23.0 gm. light fat. testes R 1.5 x 1.5 L 3 x 1 mm. brood patch refeathering, moderate molt head, ventral tracts, light molt dorsal tracts no wing molt. feeding data 3 P.M. flat dry 1/3 *Salix reptans* ml 1/3 6" Salix plk

stomach only 511 ♂ im. skull *Calidris pusillus* 24.9 gm. light fat testes R 2 x 1 L 3 x 1 mm. brood patch refeathering. moderate molt head, neck; light body molt. shot on *Carex aquatilis*-*Cetraria* flat, not feeding.

Stomach only 512 ♀ im. skull *Calidris melanotos* 51.6 gm. light fat largest ova 2 mm, several well regressed follicles. brood patch, light molt ventral cervical tract. mother of 507-508 PDB. not feeding when collected; flew in from Carex pool.

stomach only 513 ♀ im. skull *Phalaropus fulicarius* 43.6 gm. very light fat. testes R 3 x 2 L 5 x 2 mm. brood patch no molt. not feeding, shot from pond 6" water 1/0 10/8 3 P.M.

Stomach only 514 ♂ imm. skull *Phalaropus fulicarius* 50.2 gm. light fat. ... brood patch. light molt crown. shot from same spot as above, not feeding.

15 July 1966

UMMZ 515 ♀ large chick *Phalaropus fulicarius* 20.7 gm. light fat ovary ... caught at edge of River bluff by camp ca. 2 P.M. with 516

UMMZ 516 ♂ large chick *Phalaropus fulicarius* 21.9 gm. light fat testes R 1.5 L 2.0 mm caught at edge of river bluff by camp ca. 2 P.M. with 515

stomach only 517 ♂ im. skull *Phalaropus fulicarius* 43.1 gm. moderate fat. testes 3 mm. brood patch beginning to refeather. light molt head + neck. shot in pond 10" p w 1/0 m 12/14 not feeding 11 A.M.

P. DeBenedictis
1966

Catalogue - 13

Meade River Coal Mine, 157°25 W, 70°2?'N, Alaska
15 July 1966

stomach only
518 ♂ im. skull *Phalaropus fulicarius* 47.9 gm. light fat. testes 3mm. brood patch refeathering. light molt head & neck. same data as 517

stomach only
519 ♂ im. skull *Phalaropus fulicarius* 45.8 gm. light fat. testes 3mm. brood patch refeathering. Very light molt head & neck. not feeding when collected. at edge of *Carex* marsh

stomach only
520 ♂ im. skull *Phalaropus fulicarius* 44.0 gm. light fat. testes 3mm. brood patch refeathering. light molt head & neck. same feeding data as above.

UMMZ
>N 521 ♂ chick *Calidris pusillus* 6.3. no fat. testes 1mm. small yolk sac. legs, bill dark gray. with 522, 523. on *Eriophorum* flat.

UMMZ
>N 522 ♂ chick *Calidris pusillus* 6.2 gm. no fat ("light" on label). testes 1mm. small yolk sac. legs, bill dark gray. with 521, 523 PDeB.

>N-MVZ 523 ♀ chick *Calidris pusillus* 7.0 gm. no fat. ovary ☐ small yolk sac. legs bill dark gray. with 521, 522 PDeB.

stomach only 524 ♂ im. skull *Calidris pusillus* 22.1 gm. light fat. testes 2mm. brood patch refeathering; light molt all body tracts. shot off *Cornicularia-Cetraria* flat; not feeding.

stomach only 525 ♂ im. skull *Calidris pusillus* 21.7 gm. hvy fat. testes 2mm. brood patch. light molt head neck. anterior body tracts. in willows along river, not feeding when collected

UMMZ
>N 526 ♂ chick *Calidris melanotos* 19.5 gm. no fat. testes 1.5 mm. legs dull yellow. with 527 PDeB ? young of 528
in 8" grass (40% cover) sphagnum dyke at edge shallow *Carex* Pool

P. DeBenedictis
1966

Catalogue - 14

Meade River Coal Mine, 157°25'W, 70°27'N, Alaska
15 July 1966

>N UMMZ 527 ♀ chick Calidris melanotos 20.1 gm no fat one gonad found, shape ⊂⊃, ?ovary; position uncertain legs dull yellow. with 526 P.DeB.

stomach only 528 ♀ im. skull Calidris melanotos 53.5 gm. very light fat. largest ova 2 mm, several well regressed follicles. brood patch. light molt head + neck. ?mother of 526-7 PDeB. shot at edge of Carex pool, not feeding.

stomach only 529 ♀ im. skull Calidris melanotos 52.6 gm. very light fat. largest ova 1.5 mm, several well regressed follicles. brood patch. light molt head, very light molt neck. shot at edge of Carex pool. not feeding

> UMMZ SKEL. 530 ♂ im. skull Lobipes lobatus 32.0 gm light fat testes 2 mm. brood patch refeathering. light molt head + neck. shot from marsh pw 6" 2/0 m 8/10 not feeding.?

> UMMZ SKEL 531 ♀ ad. skull Motacilla flava 15.9 gm. moderate fat. largest ova 1 mm. brood patch refeathering light molt head + neck. primar 4 in sheath, 3 out, 2 2/3 grown; outer primary coverts + inner 2° coverts in sheath.

Barrow, Alaska
19 July 1966 (S. McClean collector)

>N 532 ♂? chick Calidris bairdii 11.6 gm no fat gonads not found brood mate of 533 PDeB. legs and bill dark gray

>N 533 ♂ chick Calidris bairdii 11.9 gm no fat testes 1.5 mm brood mate of 532 P.DeB. legs + bill dark gray

P. DeBenedictis
1966

Catalogue - 15

Barrow, Alaska

20 July 1966

>N UMMZ 534 ♂ chick *Clangula hyemale* 27.4 gm. light fat. testes 2 mm. from brood of 7 in nest. less than 1 day old. bill, legs dark gray

Cape Thompson, Alaska

30 July 1966 (pickup)

not found 535 ♂? ad. *Larus glaucescens* - old carcass, wing + tail only

28 July 1966

> SKEL + SKIN UMMZ 536 ?♂ (by plumage + bill color) *Somateria fischeri* 990 gm. very light fat. flightless. legs dull yellow. Bill orange. heavy body molt.

Barrow, Alaska (S. McLean collector)

2 August

>N UMMZ 537 ♀ im. skull juv. *Calidris pusillus* 25? gm. moderate fat. sex by oviduct. gonad uncertain light molt ventral tract. shot from flock of birds.

Meade River Coal Mine, 157°25 W, 70°?? N, Alaska

prep'd 4 August 1966 killed by natives c. 30 July 1966

> SKEL UMMZ 538 ♂ ad. *Gavia adamsii* 5500± gm. light fat testes 20×6 mm no molt. no brood patch.

26 July 1966 (T.W. Custer collector)

> SKEL UMMZ 539 ♂ ad. *Stercorarius parasiticus* 403 gm. light fat testes 6 mm no molt no brood patch. legs, bill black

8 August 1966 ~~collected by Tom~~ killed by Carl Sheppard's dog

>N + SK + MVZ 540 ♀ *Mustela erminea* 126.2 gm 262 - 83 - 38 - 18^N no embryos right uterus may have had two scars, left none,

P. DeBenedictis, 1966

Catalogue - 16

Meade River Coal Mine, 157°25' W, 70°?' N, Alaska
10 August 1966

stomach only 541 ♂ imm Phalaropus fulicarius 39.5 gm no fat testes 3mm. moderate body molt, heavy molt nape (downy) base of bill flesh, rest black; legs yellow-flesh. no wing molt not feeding when shot.

stomach only 542 ♀ imm. Phalaropus fulicarius 43.3 gm very light fat. ovary [illegible] Moderate body molt, light molt nape. no wing molt not feeding when shot.

stomach only 543 ♂? imm Phalaropus fulicarius 49.9 gm ~~no fat~~ very light fat shot up. moderate body molt, no down, no wing molt not feeding when shot

stomach only 544 ♀ imm. adult Calidris melanotos 48.1 gm. light fat [illegible] follicles indistinct. brood patch. no molt. not feeding when shot

stomach only 545 ♂ imm Calidris melanotos 60.7 gm light fat testes 2mm light body molt; moderate neck + crown molt, no wing molt. Shot on dyke in pond. not feeding

stomach only 546 ♂ imm. Calidris melanotos 66.5 gm light fat. testes 2mm light body + neck molt. no wing molt. not feeding when shot

stomach only 547 ♂ imm. Calidris melanotos 74.2 gm moderate fat Testes 2mm no molt not feeding when shot

UMMZ SKEL 548 ♂ imm. skull Motacilla flava 17.6 gm moderate fat testes 1.5 mm moderate-heavy body molt, flight feathers all new.

Catalogue - 17

Meade River Coal Mine, 157°25' W, 70°29' N, Alaska

23 August 1966

MVZ UMMZ 559 ♂ (testes 7 mm, epid. +) *Lemmus trimucronatus* 25.3 gm. light fat 96-14-18-8.5 N
caught in *Eriophorum scheuzeri* along river.

22 August 1966

MVZ UMMZ 560 ♀ (emb. R2 L2, 20 mm) *Dicrostonyx groenlandicus* 54.5 gm. moderate fat 125-16-17-6 N
caught in sphagnum on ridge separating shallow marshes.

Cape Thompson, Alaska (J. Parker, collector)
28-30 JULY, 1966

SKEL UMMZ 551 ♂? imm. *Calidris mauri* 19.2 gm. light fat no gonads
heavy body + neck molt, no down (free flying).

> SKEL UMMZ 552 ♂ imm. *Calidris mauri* 19.8 gm. light fat testes 1 mm
heavy body + neck molt. no down (free flying)

> SKEL UMMZ 553 ♀ imm. *Calidris mauri* 18.7 gm. light fat ovary o
heavy body + neck molt, trace down on nape (free flying)

Not saved SKES 554 ♀? imm. *Calidris mauri* 16.5 gm. NOT SAVED.

P. De Benedictis
1965-1966

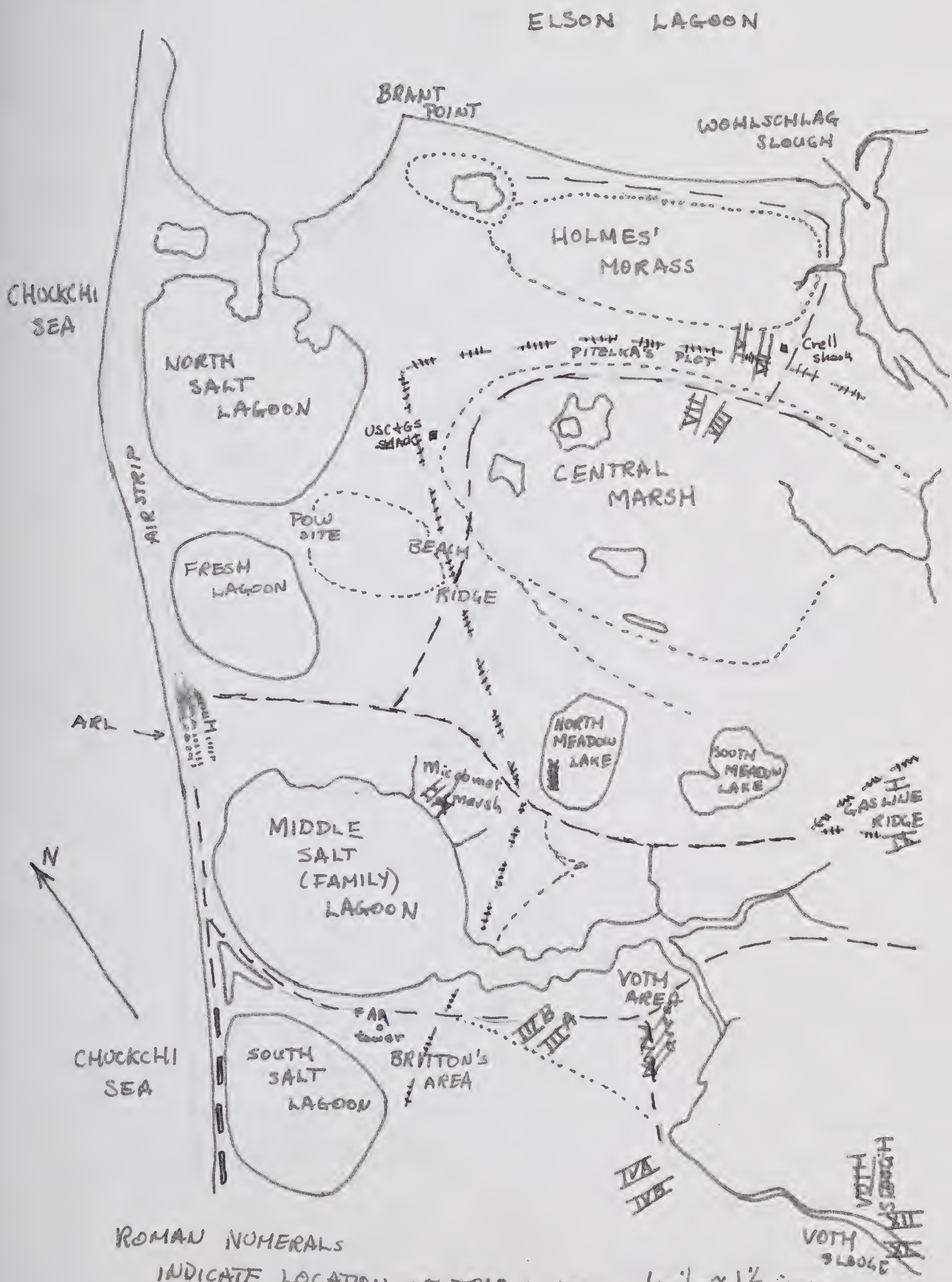
Alaska

Journal 1965

Transect data
Daily observational data

P. DeBenedictis
1965

MAP OF BARROW area



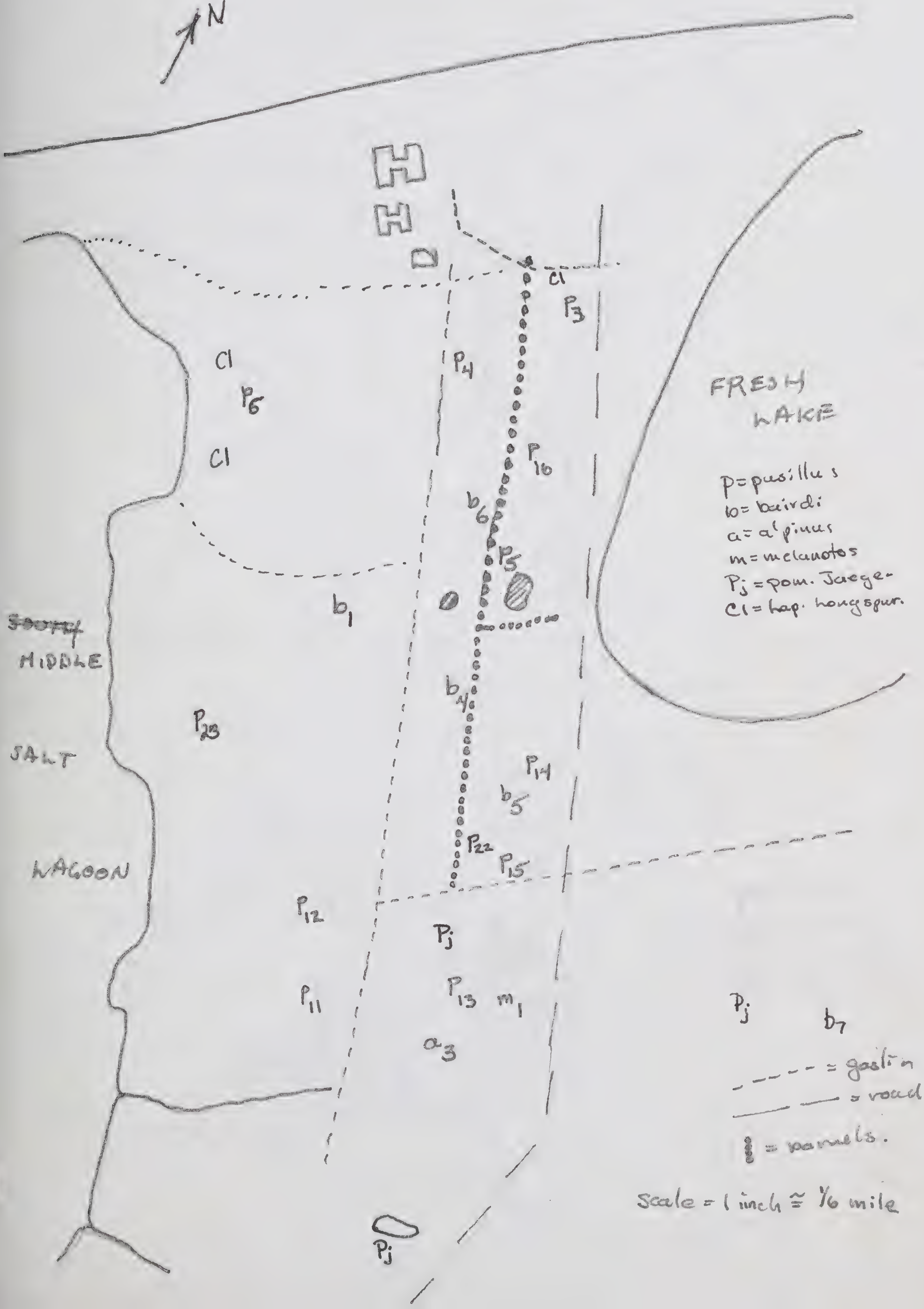
ROMAN NUMERALS INDICATE LOCATION OF TRAP LINES

1 mile ≅ 1½ inches

= Ridge
= weasel Road
= topographic boundry
= building.

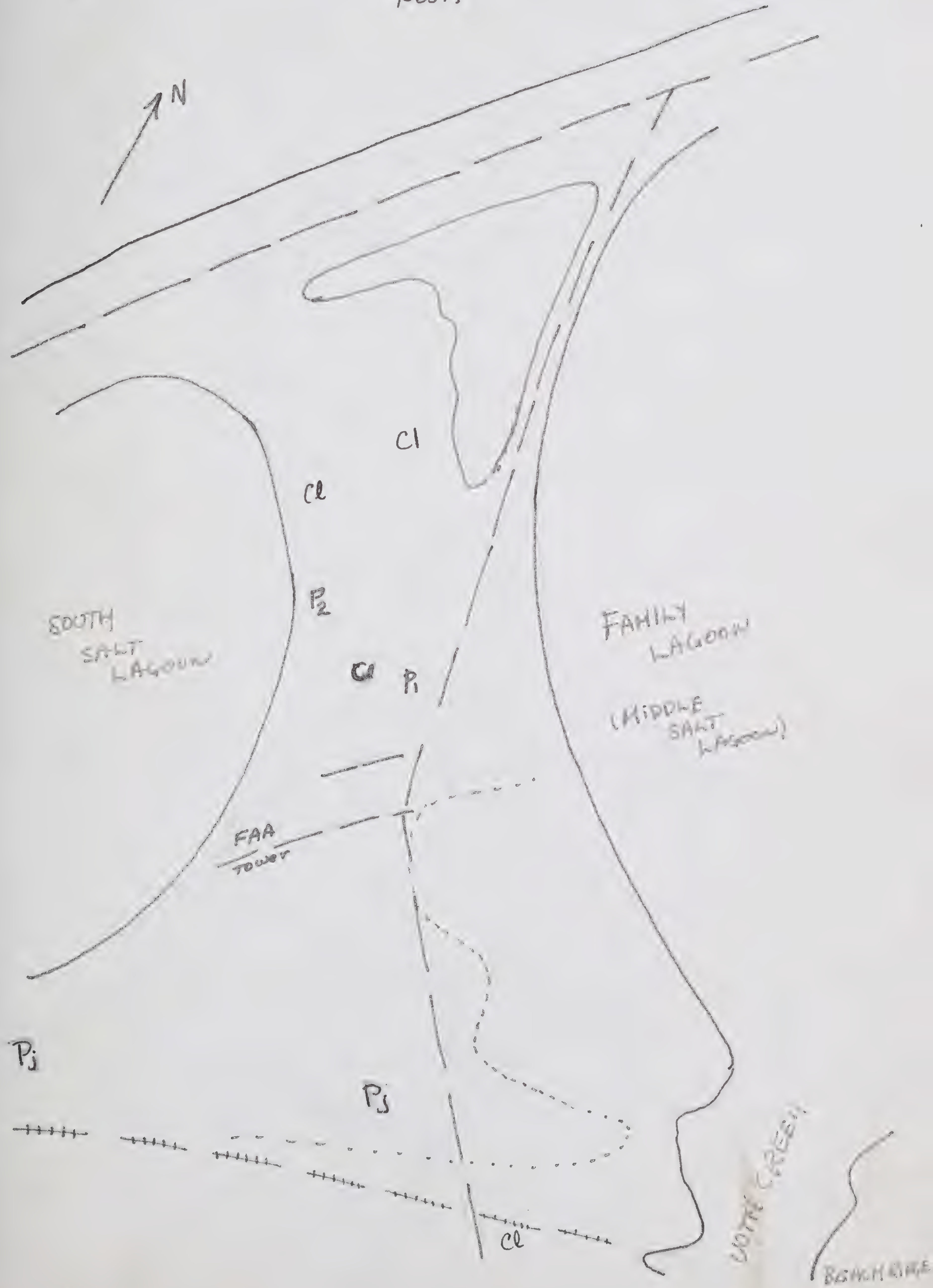
P. DeBenedictis
1965

Master map
Barrell area, Micronet
Nests.



P. DeBenedicts.
1965

Master map
Britton's Area
Nests



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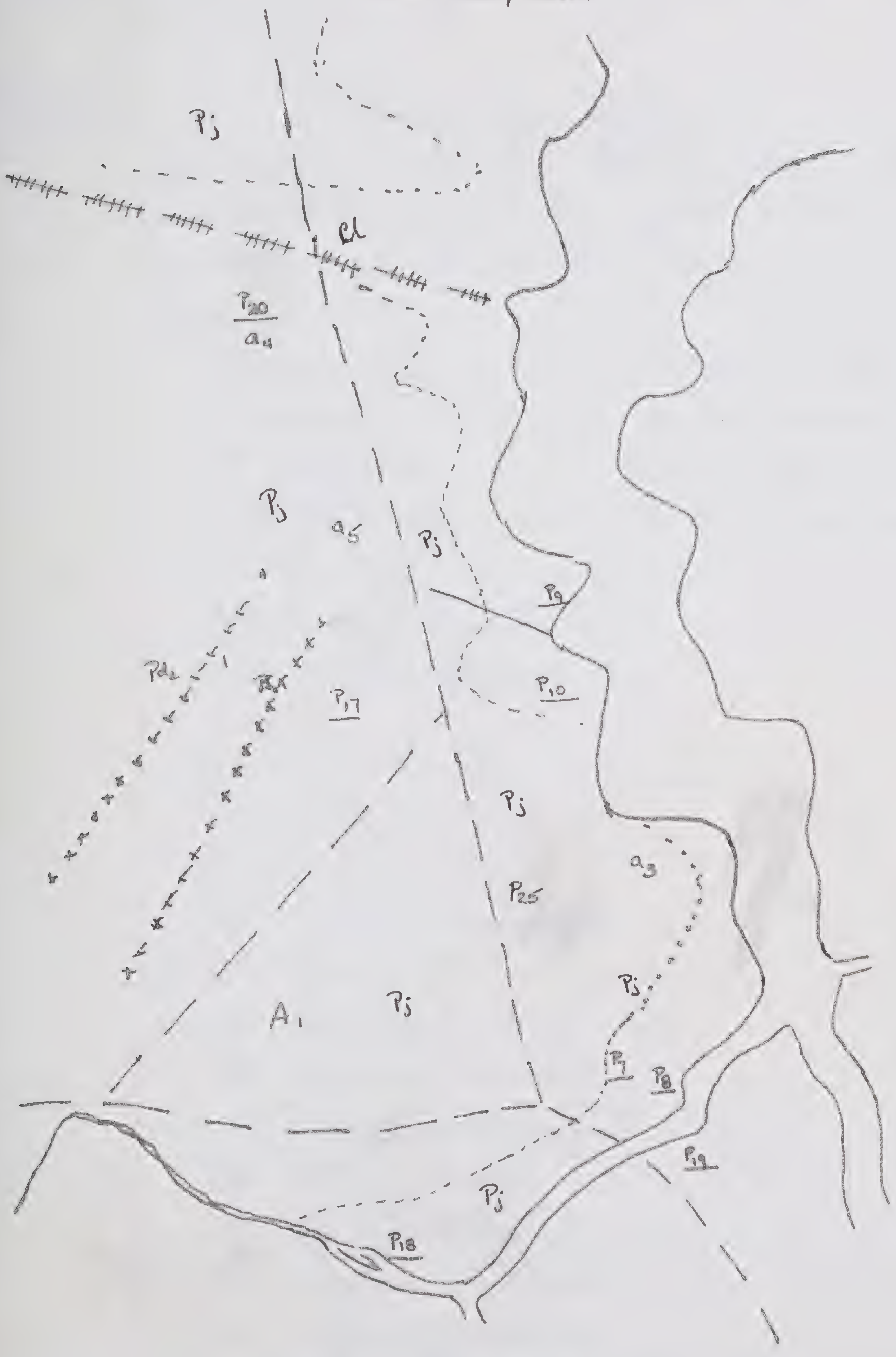
1968

~~Calidris pusillus~~
Master map
VOTM area, nests



P. DeBenedictis

1965

①

June 7

Fairbanks, Alaska

arrived by plane from San Francisco about midnight and spent the night in Hotel Nordale. Spent the day looking at birds around Fairbanks finding:

8 Amer. Wigeon
2 Shoveler
8? Bufflehead
1 Spotted Sandpiper
4 (?Mew) Gull
8±2 Hammond's Flycatcher
1 Western Wood pewee
2 Raven
500 Bank Swallow
100 Cliff Swallow
75 Tree Swallow
25 Violet-green Swallow
40 Robin
20 Swainson's Thrush
20 Bohemian Waxwing
2 Ruby-crowned Kinglet
200 Yellow Warbler
25 Myrtle Warbler
2 Northern Waterthrush
20 Wilson's Warbler
1 Rusty Blackbird, ♀ flushed 3 times from a nest 8 feet up in a birch over a stagnant drainage ditch; she protested noisily to my presence

50 Common Redpoll
20 Slate-colored Junco
25 Fox Sparrow
20 White-crowned Sparrow

DeBenedictis

1965

June 7 Barrow, Alaska

plane for Barrow left about 5 PM and arrived Barrow a little after 7. Went to bed. It is blowing and there is still a lot of snow on the ground.

June 8 Spent the day around the ARL, finding out where a few of the things around here are. and reading - primarily tundra botany. Saw only 2 shorebirds, Snow Buntings and Lapland Longspurs during the day. After dinner I went to the west end of the ARL where I saw 5 Glaucous Gulls + 3 Jaegers out on the sea ice + 3 Gulls flying about farther out. No sign the wind is ceasing but visibility inland is getting better.

June 9 In the A.M from about 9 to 11 AM out with Dr. Pitelka on the tundra in the area 2 mi. S of ARL; the tundra is quite snow covered, and the open spots are all blown over, much shallow ice over the exposed soil. Not much surface activity, and almost no small birds; the larger birds (Jaeger + up) were concentrated (VOTH area) = in the dump area by the old AFB radar installation, where about 80% of all the birds were seen. Saw one dead Jaeger and no shorebirds. Jaegers courting + saw one Snowy Owl copulation. Shortly afternoon went out around the camp area finding a Fox Sparrow and a few of the regulars.

P. DeBenedictis
1965

(3)

June 10 Barrow, Alaska

went out in the A.M. about 10, about 2PM and about 7 PM to check around the ARL; the snow is visibly melting and much more soil is being exposed; Lemmus runway systems are appearing in the snow. I saw both the Fox Sparrow + the White-cr. that turned up yesterday and the 1st few shorebirds around the lab area; didn't look at the pack ice area. There seems to be more dispersion among the [illegible] present, and the shorebirds were not found until the evening check; read during the morning and in the afternoon helped Dr. Pitelka process lemmings. About 7:30 Dr. Pitelka, S. McClean + I went out towards the Central Marsh - Wohlschlag Slough area, seeing #s of jaegers and quite a few Snowy Owls along with the first few shorebirds. There were 2 large concentrations of jaegers + we had 7 Snowy Owls in sight at one time. The weather was variable during the day, winds from the east, wet with occ. snow flurries of short duration and some fog. The tundra as compared to yesterday is much more open, no or little drift-ice remaining and lemming runways appearing. Saw no lemmings on the surface but saw several kills being made. The tundra was almost quiet except for a short period of sunshine. Got back about 10:15 and spent the rest of the evening with notes.

June 11. about 9:30 went out in the barrel area behind the ARL; the snow continues to melt off and more grass is exposed: there are clearly more Longspurs

P. DeBenedictis
1965

June 11 Barrow, Alaska

present and now quite a few Semipals; the Turnstone have moved out, the Fox Sparrow still present; the morning spent processing lemmings, much of the afternoon on the tundra, walking out to the SE corner of Family Lagoon with Steve McClean. Longspurs are noticeably moving in and there are constantly more shorebirds present - 1st Baird's ~~billed~~ Phalarope seen today and Sabine's Gull + Short-eared Owl. Found a Snowy Owl nest and a Tree Sparrow. Saw a few dark colored ducks at dinner time. About 8 went out with Dr. Pitelka in a weasel along the gas line to Gasline Ridge. The sky was, as most ~~of the~~ day, very overcast and a strong wind blew from the east. There was little activity and no concentrations of birds, the small birds being very inconspicuous ~~spread out~~ + the larger ones very spread out. There is still a conc. of gulls in the Voth area but few jaegers. Snowy Owls quite spread out. Still shorebirds coming in.

June 12 went out to the Beach ridge in the morning with D. Mullen to catch lemmings + get a lesson in weasel driving. We saw little on the way out and only 4 Dunlin on the ridge; it was blowing ~~[illegible]~~ moderately strong from the west and there were ca. snow flurries (roughly the same tried to [illegible]). The lemmings were fairly easy to catch + we got 10 + saw 4-6 others in a [illegible] area. Sanderl

P. De Bruyn
1965

12 June — Barrow, Alaska

the ^late^ morning around the ARL with Bob. Hamilton: there was little activity eventhough the tundra has noticeably emerged; In the afternoon Dr. Pitelka gave Bob and I a lift to the Beach Ridge and ~~Bob~~ we walked along it to Family Lagoon & then around to the Voth area to the west side of Family Lagoon & back to ARL. The Voth Area was very much free of snow and there were good #s of jaegers and shorebirds here and along the west side of Family Lagoon. We saw a few lemming and little Owl activity but jaegers & gulls doing a good job. Birds didn't appear to be comming in at all. Got back about 6 30 and spent evening writing notes & discussing the feeding data we are taking. In addition to the birds listed I thought I saw a Bluethroat at the NW corner of Family Lagoon but couldn't get a decent look at it. Elsewhere the jaegers were evenly and openly distributed and we saw only 6 shorebirds on the Beach Ridge.

13 June — Didn't get out until about 11 and walked into the Barrel area c. 1/4 mile below the animal lab. There is more vegetation appearing ~~in~~ on the tundra and quite a bit of water under the snow. There were Baird's sandpipers in the area for the 1st time and a nice ♂ Bluethroat: the birds present were quite active

13 June Barrow, Alaska
in territorial display, and little feeding was seen
In the afternoon Bob Hamilton and walked out along
the W side Family Lagoon about 1/2 way to the
VORH area. There were good numbers of shorebirds
present, including Bairds, Pectoral, and
White-rumped which weren't present yesterday
and a Tree Sparrow in place of the juncos.
There was considerable exposed tundra and
many puddles of ice water as well as water
in the troughs. Saw a number of lemmings
in the area. It was wind and rained
in the late afternoon; didn't go out in the evening
at all. May have seen a sanderling in the morning.

14 June Spent the A.M. at ARL writing notes + processing
lemmings. Saw 5 Jaegers. In the afternoon
Dr. Pitelka + I went checking on Snowy Owl
nests in the area along Elson Lagoon to
the area S of Ukpik Slough. It was cold and
overcast and quite windy; there was little
activity except for lemmings and jaegers in
most of the area except on the highlands along
Elson Lagoon and the sloughs, where there was
extensive exposed tundra. Lemmings were
numerous throughout the area, and I saw more
than in the previous week here; Dr. Pitelka stepped
on one. The shorebirds were noisy but saw little
clear courtship behavior; there were large #s of

P. DeBenedictis
1965

14 June — Barrow Alaska

non-territorial jaegers and good evidence of Snowy Owls. The geese surprised me. Spent the evening around ARL.

15 June — Slept poorly this evening. Still cold, wet wind with occ. snow flurry from the east and miserable overcast weather though not as bad as yesterday. Went out with D. Mullen to edge Elson Lagoon near Brant Point from PBW area. The tundra here except along the lagoon is 95% snow or drift covered; on the shore of the lagoon there is considerable standing water under the snow and the tundra is 3/5 exposed and wet. Saw a small group jaeg. and only a few shorebirds and found a Snowy Owl nest. Got in c. 1015 + fell asleep. From about 3 to 6 P.M. out in the tunnel area, looking for sandpipers. There was a strong west wind and occasional fairly heavy snow flurries; in between the sun occasionally poked out; in spite of this my trails drifted over rapidly and much of the tundra seems to be getting covered up again. No lemmings and only a few jaegers including ~~a few~~ two Black phase birds. Activity was limited to the more sunny period and still seems to involve primarily territorial display. Little new around. Lost my watch and spend about a hour looking for it, with no success. Spent the evening at ARL, writing notes. The bird seen June 13 that I thought later might be a sanderling was one; found it again.

P. DeBenedictis
1965

(8)

16 June

Barrow, Alaska

this am went out to Beach Ridge with D. Mullen; the wind still blows from the E with some light snow flurries; the wind is warm. Snow fell during the night have drifted over most of the low tundra exposed even yesterday afternoon. There was little longspur activity, are in the Burial area and the jaegers were all but nil. Saw only 2 birds on the way out and in Central Marsh the high #s of the previous days were present but sitting except for a few along the ridge; almost no shorebirds. lemming all over hell! From about 230 to 5 PM out along the SE end of the Beach Ridge and along the N shore Wohlschlag Slough. It was still windy and snowed heavily on several occasions. lemmings are as abundant a more so here than elsewhere, and there were small #s of shorebirds along the shore of Wohlschlag. Jaegers somewhat more active in this area. I estimate the recent snow has reduced the exposed tundra to 1/3 to the amount exposed on June 14. The dunlins and an occasional longspur began to think it was summer and sang a little and the Golden Plovers are getting a little more agressive. The new snow is quite soft & there is much water beneath; when (if) it warms up things were moving & clear up rapidly.

P. De Benedictis
1965

17 June

Barrow, Alaska

temp. 25 in the morning; wind still from the east and considerable snow during the night. It looks like June 9. Bob Hamilton and I went out to the area between Family and S. Salt Lagoons, where we found fairly good numbers of birds; activity was low, due to heavy winds and it snowed lightly twice while we were out. found a egg (sp?) behind the shelter of a mound, and saw little other evidence of nesting behavior. Few jaegers here compared to earlier. The Knot birds are still quite social and Baird's is surprisingly scarce although the others are beginning to show in fair numbers. The Sanderlings were all over the place. We got in about noon & then went out with Dr. Pitelka about 130 to 430 to the same area, working farther inland. found a jaeger's nest and saw nest cup display of White-rump; there are still sanderlings everywhere and Lemming activity was more noticeable. Spent a lot of time photographing; It didn't snow and we saw more display, but most activity was feeding. Melt is taking place but hindered by the amount of fresh snow falling & the fact the pools froze during the night.

18 June

It was much warmer today due to the almost complete absence of wind. Melt is proceeding slowly. Didn't get out at all in the morning and

P. DeBenedictis
1965

18 June — Barrow, Alaska.

in the afternoon went out with Muller to the Beach Ridge to catch live lemmings and walked in to ARL from there. There was little on the ridge but closer in there was quite a bit of shorebird display, and more Baird's Sandpiper than usual; longspurs little change from previously and saw a jaeger copulation. Still lots of birds on central marsh. Spent the evening at ARL.

19 June — In the morning I went out to the Beach Ridge with Dave Muller to catch lemmings. There was no song, but only a few longspurs were present; didn't notice any groups of jaegers and the only shorebird seen was a Semipal. The melt has not proceeded much but the wind has shifted to the west and it was not as cold feeling today as usual, although it snowed slightly on two occasions. Stayed in the rest of the A.M. and in the afternoon went over towards the North area with Hamilton from about 2 to 5:30. The area hasn't changed much from before except in bird activity. The only song heard was longspurs and snowbunting, except for bursts of shorebird noise; this was more varied than usual. There were two lemmings along the N side of Family Lagoon; and none farther inland; the ice on S. Salt Lagoon is beginning to

P. DeBenedictis
1965

(18)

19 June

Barrow, Alaska

Woke up and a fair sized group of gulls was present. Most of the Dunlin in the area had disappeared but we followed Dr. Pitelka, who was in a collecting mood and may have had something to do with this. Saw all the regulars except Baird's Sandp. and display of all but Red Phalarope. No groups of jaegers. In addition to the birds listed we heard 3-4 groups of ? Oldsquaw flying E way off over the cloud layer. Spent the evening writing notes. Saw a loon giving rather chicken like clucking noises flying N over ARL about 10 PM but it was to far away to identify.

20 June Spent the AM in ARL as the wind has gone back to the E and it was snowing in the morning. About 1:30 pm went back to the VOR area with Hamilton, more to watch birds than to record anything - it proved to be a nice day, as the wind had dropped, then came up about 4 and died down again. We covered about the same area as yesterday and there were notable changes: Longspurs were less in evidence and Jaegers more so. There were almost no White-rumps present and more Turnstones, Plovers and Phalaropes; the outstanding feature of the day, however, was the off shore water-fowl flight: almost everytime we looked out over

P. DeBenedictis
1965

20 June — Barrow, Alaska

the lead we could see lines of ducks, all but one flock flying to the East; most appeared to be Oldsquaw from the way they flew but some were clearly Eiders and Brant; a number of species were seen inland where they could be identified. Found ~~Song~~ Snow Buntings carrying nest material and heard much Lapland Longspur display; Aerial display of all shorebirds except Baird's ?and Red Phalarope, and saw attempted cop. of Jaeger and Dunlin. Spent the evening writing Notes. Saw My 1st Least Weasel today!

21 June — Weather as yesterday but over 40 for the 1st time this June, and the wind mild much of the day. Snow morning and evening. Stayed around ARL in the AM working on lemmings; went out about ½ hour behind the Animal Hut before noon; activity not much but lots of song of Longspur, Snow Bunting and Baird's Sandpiper, and a Semipal. Plover were in. After lunch Bob Hamilton and I went to the area between M. and S. Salt Lagoons where we have been before. It was shocking! The off shore waterfowl migration was all but nil and almost all the shorebirds were gone except Semipal. Sandpiper; the only reason we got so many turnstones is that a flock of 8 flew by while we were there and we were barely able to find a dunlin! Saw aerial display of ~~Golden Plover (1)~~, Pectoral (2), Semipal & Dunlin and most passerines

21 June Barrow, Alaska

were vocal. Attempted copulation of Semipal. Sandpiper and Red Phalarope and some Oldsquaw and Eider display. Spent the evening around ARL. The big change on the tundra is the appearance of the new growth of grass and we found 9 flowers (*Ranunculus*).

22 June Stayed in the AM processing lemmings and sleeping (in reverse that order of importance). After lunch I walked down to the Area between S. & M. Salt Lagoons and eventually made the circuit of the M. Salt Lagoon. It was cold and windy from the east and frequent ~~fairly~~ heavy fog patches blowing over considerably inhibited visibility. The melt has noticeably increased and there is much water in some polygon troughs; lemmings are more conspicuous than ever but not very dense, ~~and~~. saw none near the ocean. It was quite silent, only a few Buntings & Longspurs singing and almost no shorebird display, although most species seen did display at least once. The E side of Family Lagoon has much more snow than the W and was almost devoid of shorebirds (1 pair each of Dunlin, Semipal & Baird's Sand~~piper~~) and saw very little coming in from the Beach ridge; Extensive exposure of low areas ~~N~~E of the ridge now. Waterfowl much less in evidence now. After the evening Movies MacClean took Hamilton & I out to look for a ♂♂ Spectacled Eiders (which seems present) near Elson Lagoon

P. DeBenedictis
1965

(24)

22 June. Barrow, Alaska
N of Wohlschlag Slough. Shore birds were quite numerous here, most species being represented and we saw 6 jaeger nests. The melt is most pronounced on the ridge and along the edge of the lagoon but is obviously progressing in lower areas. About 85% snow cover still. The wind had died down and it was pleasant though cold in the evening.

23 June Stayed in in the A.M writing Notes; Went out behind the lab into the flooded low grassy area between Beach Ridge, ~~Stu~~ Salt lagoon + Micromet shack, where the observing was fairly good. It was raining and rather windy (E) in the am and dry but equally windy when I went out and cold. The 1st few shorebirds seen were all huddled against the lee of various mounds, but a fair amount of shorebird feeding was seen. The only bird close to vocal was Snow Bunting but all other breeders were heard calling, and considerable display was seen of White-rump + Pectoral Sandpipers, the former being the 1st I have seen in 3 days now. Most of the birds were well back towards the beach ridge and fed in very wet places. The Semipal + the Western(s) were probably still to be called migrants.

24 June Went out behind the lab to the Area visited yesterday in the morning from about 10 to 12:20. It was cold, wind from the S in the AM + from the E while we were out; no snow or rain. Melt has increased

P. DeBenedictis
1968

(18)

24 June

Barrow, Alaska

only a little from yesterday and the aspect changed most is increasing softness of the snow. It was somewhat noisier than yesterday but far from being wild, and we saw a fair amount of shorebird display. Lemmings all over but only ½ what was earlier on the beach ridge. Pomarines very quiet. General impression of breeding behavior is the ♀s are not yet ready to breed although the ♂s are. Fewer birds far out today than yesterday and more Baird's closer to the Arch. In the afternoon I was taken to the N end of Pitelka's Census plot and walked across Horse's Moraine to the Brant Pt. Snowy Owl nest, which I didn't check. I went down Elson Lagoon to Wohlschlag Slough and then back to the S part of the Beach Ridge and up to the N. end of Pitelka's plot. The wind was strong and there was a fine mist that played havoc with my optical equipment the whole time. Activity was not good, dunlin being the most vocal species and there were fewer shorebirds apparent here than when I went out on the evening of June 22. Found two new jaeger nests each with one egg and 3 old ones each with 3. Saw 2 suspicious acting Long spurs but found no nests. There were a number of "way out" birds along the lagoon, including some very vocal Sabine's gulls but little else exciting was noted. Lots of Red phalaropes. On the way out noted a large group of Pomarine Jaegers

P. De Benedictis
1965

24 June — Barrow, Alaska

and Glaucous Gulls in Central Marsh + shorebird are beginning to use the newly exposed portions of the marsh, as well as a few Steller's Eiders. Lemmings really common.

25 June — In the morning went with Bob. Hamilton to Pitelka's Census plot to look for a Curlew Sandpiper which turned up yesterday. It was clear + warm in the AM, with little wind increasing towards noon. We got a ride to the Beach ridge near microwave and walked to Pitelka's plot, where we met Dr. Pitelka and got a ride in. The commonest shorebird was Red Phalarope, and there was little song at any time. The ridge was quite devoid of birds, only a few shorebirds + buntings and jaegers being seen (2 alpinus, 2 pusillus, 2 P. fulicarius) but many individuals were present in the recently exposed lowlands on either side. Red Phalarope was by far the commonest species observed, and more birds were in central Marsh than all the rest of the area viewed, showing greater variety than elsewhere. In addition to those species seen yesterday a pair of Dowitchers was present and the great concentration of gulls is still present in the marsh. Relatively little over Holme's Morass and little to be seen along Elson Lagoon. Lemmings didn't seem as numerous as yesterday. In the afternoon went to Gasline Ridge with Dr. Pitelka seeing a Long-tail Jaeger, 2 Steller's Eiders and a White-rumped Sandpiper on the way out.

P. DeBenedictis
1966

25 June — Barrow, Alaska

From the N end of the ridge I walked W to Nolth Creek then back to the Weasel crossing (where I fell through the ice to my waist!) and down (rapidly & cold-footed) along the W side Family lagoon to the Ocean & back to ARL. Melt along this area is progressing rapidly, about 50% more surface having been exposed since ~~yesterday~~ the last time I was out there. Much of the area worked carefully was flat and had a very low density of birds, about 0.25/acre, none being especially more numerous than the others. There was the usual abundance of Phalaropes in area near Trap line #A+B and not a lot of shorebirds other than this; all species that breed here were seen in display of some sort but the amount was small, dunlins and white-rumps being the most active and no obviously courtship activity was seen except for 1 pair of Semipals. One of the calls I have been attributing to jaegers is loon. Got in about 6:30 and stayed in the lab for the evening.

26 June — Stayed in this AM writing notes, and spent the afternoon on Dr. Pitelka's Census plot. It was variably clear and the wind went from W, to calm to E during the day, E and brisk during the afternoon stirring up occ. patches of fog. The melt is amazing, now over ½ Central Marsh exposed and the polygonized area to the W is about ⅔ exposed. We've been traversing some wild troughs! Saw 2 lemmings in the lab area in the AM. There was very little on Dr. Pitelka's plot

P. De Benedictis
1965

26 June — Barrow, Alaska,

Much of which did not appear to be nesting, esp. Longspurs. Saw 2 jaeger nests and a complete dunlin nest; and heard considerable display including the Curlew Sandp. in Holmes' Morass. In the evening Hamilton + I went out behind the animal hut to look for some odd birds he had seen earlier but found only 3 nests + heard lots of display. Saw lemmings here for the 1st time and a Snowy Owl crossing the area. I am really loosing track of time, as I can tell the day of the week only by the menu!

27 June — Got up late and went on a nest hunt with Hamilton, which fairly successful. We started about 10 A.M. and went out in the barrel area, going out to the end of the 1st bare strip (100 yards) and worked zig-zag down to Family Lagoon, when we came back for more stakes. Saw all three jaegers and a good sampling of Bairds + Semipals: the Yellow Wagtails were a pleasant surprise. It was warm, rather calm and pleasant and the snow is only about 20-25% cover now. We then got a ride to the VOTH area and walked down to VOTH Slough, and back the usual way to the lab. The whole area was fairly quiet and except in those parts originally exposed there were very few shorebirds, most Red Phalaropes and scattered Dunlin and Pectorals. We saw a flock of 12 small (sounded like West.) + 1 large "peep" flying East over the area. The comments

R. DeBenedict's
1965

27 June Barrow-Alaska

Here very well but it was more overcast and windy: the song activity was low until about 330. We noticed that many of the shorebirds seem to be going off territory to feed and Hamilton has suggested (I believe correctly) that this is because the birds nested early near optimum habitat which has gone to pot with the present melt. Noted a number of dead birds, and believe someone is out potting them, but not many dead Cunnings. Voth Slough is quite wet and a few Eiders were present. The Red Phalaropes in this area are greatly reduced in #s, probably more dispersed. The ice off shore is beginning to break up.

28 June Went out alone about 9 A.M to Micromet Marsh to look for feeding shorebirds. There was very little, mostly phalaropes, close in and it was quiet. The wind was from the SE and it rained towards noon lightly. The snow cover is even less now and considerable drainage has taken place. The jaegers are quite inconspicuous now, and few long-tails were seen. Getting some fine distraction display from nesting shorebirds. Most of the shorebirds seen were in Micromet Marsh which was as far as I went and they fed close to one another. Heard no Pectoral display although saw several flying about and little display of anything else. Went back in the afternoon to get the godwit I found and I worked from there nearly to gasline ridge, taking it very easy as I went.

P. DeBenedictis
1965

28 June. Barrow, Alaska
There were almost no shorebirds evident at all in this area but noted a few species in Miccomet Marsh I had not seen earlier. The area here was relatively quiet. Lemmings were about equally distributed everywhere from Miccomet on and not as conspicuous; not many dead ones. Found a fairly fresh dead Snowy Owl and 2 dead Glaucous gulls and a single nests of Pom. Jaeger, Baird's and Pectoral, and saw a Dunlin's nest found by P. Pitelka. In the evening checked the nests behind the lab finding No change except the Baird's nest gone & a new Longspur. Saw 4 swans and one of the prettiest L-T. Jaegers I have seen in some time.

29 June Went out in the morning with Bob Hamilton to Lines I + II to see how the traps are run, and to do a little bird watching. There was little around although I saw the swans again and a number of phalaropes in the Meadow Lake area. Very few catchings though most species represented and saw 2 jaeger nests which I couldn't get at. Saw the Baird's nest found yesterday and found a single egg, prob. Golden Plover, on a wetter base polygon, although didn't see any plovers. Skinned a Red Phalarope found with a broken wing near Miccomet shack the rest of the morning. In the afternoon went towards the Vott area to look for nests and make feeding observations. Birds were very scarce except phalaropes but there are clearly more Semipals around than we have

P. DeBenedictis
1965

29 June

Barrow, Alaska

suspected as we found 2 more complete nests and saw 3 to 5 more pairs beyond this and the other knowns: no change in any of the nests out there which we checked and saw good distraction display of almost everything. Bob found a watch of mine I didn't even know I'd lost. Staked a jaegers nest I had seen earlier and at least 2 more pairs but these possibly not nesting. lots of owls out there. Greenery more conspicuous and seeing new types of flowers. In the evening went out to Micromet Marsh to check nests and made a few feeding observations and found a new semipal nest. The shorebirds here were quite restless though most seen yesterday were still present: When I went to check the feeding positions of some plovers the whole group got up and flew AWAY! along with some Pectoral Sandpipers; and saw several flocks of Pectorals and a small group of Bairds (Saw flock of Turnstones + Semipals in the VOTH area). Also lots of L-T. Jaegers in the afternoon. Little change in the Lemmings.

June 30 Got up for breakfast and went with Hamilton to the Beach Ridge to check on some birds seen yesterday by Dr. Pitelka in Central Marsh; It was moderately windy, the wind always light and with broken cloud cover and occ. light rain. Almost no snow cover now, and the ridge is nearly dry, central marsh is drying out as there is still about 4 inches

P. DeBenedictis
1965

30 June

Barrow, Alaska

of water on most of it; turning green. As I had been told there were large numbers of birds out on the marsh, mostly dowitchers, Golden Plovers and Pectoral Sandpipers, with a scattering of almost everything else. I went out to the 1st flock of birds I could see along the rim and the third bird I looked at, I couldn't identify — it proved to be some sort of a Charadrius plover, probably mongolicus. I then worked over to a group of Semipals. to look for a Rufous-necked Sandpiper seen yesterday and found one, which appeared only to have one leg: the next flock of small peep had 2 more! I then went out through the marsh to look for a "Great Knot" (which was the plover) — that had been seen with some dowitchers yesterday — by walking almost to the center of the marsh and checking all groups of shorebirds I could find, especially dowitchers. Nothing odd. The distribution of shorebirds on the marsh was probably more indicative of feeding behavior than a number of observations, as conditions were rather uniform throughout. No Bairds or White-rumps were seen in the marsh; the Rufous-necks, Westerns and Semipals. were all along the edge, usually in ground with shallow water and disturbed by Weasels. The Phalaropes were rather evenly distributed over the entire area, and Pectorals, Dowitchers and Plovers were more numerous towards the center of the marsh than along the perimeter; the latter 3 species tended to occur in groups and

P. DeBenedictis
1965

30 June

Barrow, Alaska

only where the grass formed a fairly continuous carpet above water level. Jaegers concentrated in the grassy areas adjacent to "pools" (= grassless areas) and water fowl tended to occur in the pools. Saw very little on the Beach Ridge, spent almost no time there however. In the polygonal area N of the Beach Ridge there was a small group of Golden Plovers and Dowitchers and there was another group of plovers in Micronut Marsh, where I saw the White-rumps. Checked nests on the way in and found no changes; All birds were very quiet, the noisiest thing in Central Marsh being Dowitchers; after lunch Pitelka Holdsworth Hamilton + I went out to get the plover but Dr. Pitelka missed and the Plover, not liking its reception emigrated. We then put out traps on lines 9+10 and went in. Spent the rest of the afternoon writing notes and

1 July

Spent the morning in the lab writing notes, reading and sleeping. Went out to Micronut Checking nests for about 2 hrs. in the afternoon and about 1 hour in the evening to help Hamilton with the trap lines. The Plover has mostly left the area and there do not seem to be as many Pectorals about. The morning was very rainy, the wind from the W and the afternoon was quite foggy. I found 2 new Baird's + 2 new Semipal Nests — one of the Bairds was on the way out and the other was about 2 feet from what has been called

P. DeBenedictis
1965

1 July **Barrow, Alaska**
called "Baird's Nest 2" — this proved to my dismay to be a Semipal. Nest and is noted in all above entries. One of the Semipals (12) was out near nest 11 and 13 is out near the Pectoral Nest — No. 1 14 = "Baird's Nest 2". I would have been o.k. if I had gone just ten feet farther! It was very quiet, almost nothing displaying, and very little activity. The Long-tails + Parasitics seen today were quite vocal.

2 July Went out to Pitelka's plot to walk transects, which proved to be pretty good. I got off at the N end of his plot and walked to lines V + VI which I "censused", then along the border of Central Marsh to Lines VII + VIII which were also covered. It was windy, from the W, and clear becoming cloudy with occ. rain in the afternoon, and everywhere very quiet. The marsh is beginning to drain so that the rim is almost dry now, and Holmes's Morass does not look as treacherous as it did last time I was out here. There was, as usual almost nothing on the Ridge and the only part of Holmes's Morass that really had many birds in it was the South part by the CRELL shack; here mostly Red Phalaropes, Pectorals + Golden Plover; "peep" very inconspicuous. The small "peep" were still concentrated along the rim of Central Marsh but I saw 2 Westerns well into the marsh and in the center there were no longer flocks of shorebirds but still quite a few ? non-breeders

P. DeBenedictis
1965

2 July. Barrow, Alaska

scattered about, mostly towards the southern part of the marsh. Fewer ducks (Eiders) in the the area but a big group, 125±25, of Glaucous gulls has moved into Holmes's Morass and there are still a few small groups of jaegers (6-15) out in the Marsh. In the afternoon I went out to finish a map of the area ARL to Micromet and locate the shorebird nests on it; copies placed in the species accounts and one work sheet made. The only change in nests found before is that Pusillus nest 14 now has 4 eggs; found a new Semipal & a new Baird's Nest; there can't be many more than 1 or 2 pairs of each that have yet to be found. Didn't see any dunlin and it was very quiet; two dogs from the lab followed me out and I had a time trying to keep them away from the nests. Stayed in in the evening, writing notes. There is a group of 75±25 Glaucous gulls at the S end of Fresh Lake which has been present 2-3 days now.

3 July Stayed in this morning helping with lemming processing and making a map of the VOTH area. In the afternoon about 2 went with Hamilton & Pitelka to set lines IV A-B. We saw 2 L-Tail Jaegers on the way out and only a few shorebirds. Trap setting occupied most of the time. Water level has dropped markedly and the creek is easy to cross above the falls. All of the ducks seen were here except 1 pair of Eiders; shorebirds were very scarce, almost all being Phalaropes. Didn't

P. DeBenedictis
1965

3 July | 1 | Barrow, Alaska

hear much song - no shorebird display at all. The nests were not checked, and the turnstone still seems to be present. There was a group of about 40 Dowitchers in VOTH slough. On the way in saw 3 L-T. together on the ground. In the evening went out with Hamilton to help take up lines IX + X; there were fewer pectorals visible here and not as much phalarope activity (due to the drying of the area?). A group of 10 Golden Plovers and 10 Dowitchers were along on of the remaining pools, the latter feeding out in the pools as usual. Spent the rest of the evening processing lemmings. Saw a jaeger perched on a oil drum between nests pomarines 14 + [illegible] 5.

4 July | Slept until 10 and went with Dr. Pitelka towards the VOTH area about noon - unfortunately we lost a track on the weasel on the way out so I had to walk most of the way. It was my intention to check the Dowitchers around the VOTH area then go towards the Meadow Lakes and in, which I eventually did. It was foggy all morning, almost calm, and cleared to overcast with occasional drizzle and slight E wind in the early afternoon, almost sunny at times in the late afternoon. I went directly to the VOTH area, where I spent some time looking at Western Sandpipers and Dowitchers (both of which were doing very little) and found 2 jaeger nests here. On the way in I noticed considerable song of Semi-pal. Sandpiper in the VOTH area but [illegible]

P. De Benedictis
1965

4 July

Barrow, Alaska

than an occasional Dunlin, it was really quite quiet. Most of the shorebirds were concentrated in VOTH slough where the stream was shallow, and the Dowitchers + westerns were strongly flocked; still a good group of Owls near the FAA tower. From VOTH slough I walked down the creek to Footprint Lake along the W side of the stream, which was a mistake, as the stream is at least 4 feet deep above VOTH slough and Footprint, though drained, is impossible. There were scattered Phalaropes and West. + Pectorals along the creek, especially where it widened out, and Footprint Lake itself contained a number of these, as well as a few ducks and jaegers but no dowitchers. I had to thus double back to VOTH slough and cut across directly to Gasline Ridge at trap line I + II, and went from there to the polygonized area near the meadow lakes. Saw mostly jaegers and Phalaropes between this area, and all but 1 White-rump were seen here. The area south of the Meadow lakes was very barren — Pectorals + Phalaropes. I could see a group of birds in the SW end of Central Marsh so I went there to find that the group of plovers and dowitchers has moved to here. There were no "peep"; Pectorals + Phalaropes were widely distributed on the marsh, and the jaeger groups seemed to have left or moved. Walked in to the lab along the road, and saw little — the gulls are gone from the road site: checked

P. DeBenedictis
1965

4 July

Barrow, Alaska

a few nest (Pusillus 14, 16, 4, Bairdii 5) but all unchanged. single incident each. got in about 5 and spent the evening writing notes. Saw one "pep" but from a distance looked like a Rufous-neck in Footprint Lake, but it was on the wrong side of the creek.

5 July Got up relatively early and went out with Hamilton to lines IVA-B. I had planned to walk to Footprint Lake but it quickly began to drizzle and looked like (and did) it would continue all morning. I did manage to run transects on Lines IVA-B and XI and XII; IVAB were not very good but those parts of XI + XII along the creek were good; there was still a black-belly plover here and most of the Dowitcher, but I saw no Pectorals and all but 2 or 3 of the Westerns were gone. Lemmings very inconspicuous. good number of gulls towards the dump. Spent the remainder of the morning in the lab and in the afternoon went to lines V-VIII to walk more transects. These were not as good as last time, although the distribution pattern were similar. There was very little in Holme's Morass, Pectoral's being virtually absent, and nothing on the Beach ridge in this area. The Marsh has dried a little from before but not much. The small pep seem to have largely disappeared although a few are still present, and I saw very few Dowitchers; golden plover numerous, and good numbers of Pectorals and Red Phalaropes. The Phalaropes seem to be of a higher

P. De Benedictis
1965

5 July

Barrow, Alaska

proportion of ♂s than earlier this spring. In the morning I also walked along one side of line IIIA and to post 0.0 of III B but saw nothing; Hamilton had been by not much before however, and may have scared the birds away. In the evening went with Hamilton to line IIIA-B and did a complete transect; saw ~~[illegible]~~ Oldsquaw, long-tail + par. jaeger and arctic tern on the way out and Arctic loon near the plot. Heard a little display of dunlin, semipal + pectoral; found a 4 egg dunlin nest between the trap lines and saw a plover, phalarope, semipal + dunlin nest that Hamilton had found, all with 4 eggs. The importance of wet areas was brought out ~~[illegible]~~ by last transect; all the ~~[illegible]~~ feeding birds were along IIIB where there are many pools.

6 July Stayed ~~up~~ in late and spent the morning going over my notes and preparing a map of the Barrow area. In the afternoon to Pitelka's plot and walked from the N end to the snowymelt nest at Elson Lagoon and then down to Wohlgemuth and back along the ~~[illegible]~~ east edge of Central Marsh. It was moderately windy, from the SE and variable overcast with a little rain in the late afternoon. There were very few birds on most of this run - more in Central Marsh than on the rest of the walk combined. On the leg crossing Holmes's Morass there were a few Red Phalaropes and Pectorals, and 2 or 3 dunlin. There were more Phalaropes, Dunlin and a couple of pairs of Golden Plovers, one of whom

6 July Barrow, Alaska

nest I found, and Ruddy Turnstones along Elson Lagoon. A few Waterfowl in pools here and I saw a line of 150 ducks that appeared to be Eiders and a group of 70 Kings. There were relatively fewer lemmings in Holmes' Morass than elsewhere. Three same species seen along Elson Lagoon were noted going back to the Beach Ridge. I checked 4 jaeger nests along here but all had only 2 eggs; ovals conspicuous along the lagoon shore. The marsh seems to have reached something of an equilibrium as there is little change in the water level now. The plovers had thinned out somewhat but the 3 Blackbellies still present. The large group of plovers and Dowitchers is still in the SW part of the marsh and there were a few small groups in the E + NE part. There are clearly fewer Pectorals around than July 3, and couldn't find the Pectoral nests though still a few Westerns and a group of Semipals. Got a ride in from here and spent the evening at the lab.

7 July Got up early to go out and check nests behind the lab. It was a bright sunny day, 50% overcast with a warm, variably strong wind from the SE, and very pleasant, but very quiet. In the morning the only song heard was a little Snow Bunting and 1 Semipal and 1 prob. Baird's. I went out checking all the nests on the way to AACS and then went to transect on line IX + X, and returned rapidly. I saw only singer Baird's at all the nests but pairs of semipals at several and 3 group

7 July

Barrow, Alaska

of Semipals, 3 of Pectorals and 2 of Golden Plovers: One small flock of ducks going east appeared to be Oldsquaw. None of the nests had changed and found a 1 egg Jaeger Nest marked by McClean with an old stack - put a new stack on it. The migrants greatly complicated check of pairs as at one time I had 6 semipals at one nest! In the afternoon I got a ride to the VOTH area and spent the rest of the PM checking nests. There were no changes in any nest except that 1 longspur hatched, and I found 3 Semipal + 1 jaeger nest, plus a stake which someone else placed that marked an empty cup. There was considerable semipal. activity in the area where the road crosses VOTH creek to the gas line and I heard a few dunlin displays; otherwise it was very quiet. The area has not changed much from the last time I was out here. Walked a transect of IIIA-B but few birds in the area. Things are really quiet except for the Semipals. now.

8 July Stayed in late. It was clear except for a strong NE wind which really cooled things off (blew away the mosquitoes) and blew in a low fog in the mid afternoon, becoming high overcast in the evening. The entire day was very quiet, song-wise and the main bird activity seems to be a continuation of the flocking noted earlier. In the morning went with Dr. Pitelka to the VOTH area to get some Longspurs and was fairly successful. Saw 4 dunlin together

P. DeBenedictis
1965

8 July. Barrow, Alaska

for the first time in a while and singl[?] flocks of Pectoral and Semipal. Sandpipers. The few nests checked were unchanged.* Went back in the afternoon to check, possibly 19 and as suspected there were 3 eggs. Didn't seem to be any other birds established in the area but the strong wind greatly depressed activity.

*The Turnstone and 1st Phalarope nest had been robbed and there is still question as to what the empty nest found yesterday is. - Can't find alpinus nest 5 anymore. The miserable wind induced a quick return to the lab and spent the evening in. Dr Pitelka returned to civilization this evening.

9 July got more or less early and after a light ~~lunch~~ breakfast went out with Hamilton to the area between VOTH and Footprint Lake to spot nests. We went out in gooky weather which deteriorated somewhat - wind from the E → 0 → W accompanied by cold → misquitoes → cold rain. There was little ~~noise~~ about and very little activity. except that there were pectoral flocks widely spread out. Found 6 new jaeger nests but didn't check two; the others all had 6 eggs. We found a pair for each jaeger nest but one indicated on the map and failed to find two nests - the density in this area works out to about 17-18 pairs/mi.² or about 1 pair 36 acres, which seems right from our casual observations. The Dudley Ross' turned up and we took them to VOTH slough + out to Footprint Lake

P. De Benedictis
1965

9 July

Barrow, Alaska

to find them a ~~Spectacled~~ Steller's Eider, for which our success could be called at best moderate. We found 2 more jaeger nests, one not visited, and a dunlin + R. Phalarope nest. It rained pretty hard. We had a "egg" hatching score + checked nest madly in the evening only to find we are about 3-5 days early. None changed, including pusillus 19, and p. 2 seem to have been abandoned as the eggs were cold and wet. Spent the rest of the ~~evening~~ evening writing notes.

10 July Continued the check of jaeger nests, finding 6 new nests and 3 or 4 more. The wind died down about noon and came up from the W in the evening, but except for this it was a beautiful ~~sunny~~ day, and so quiet, the only song being parachuting dunlins. In the morning we went out to the gasline Ridge; there were few birds along here but more oldsquaw and Steller's eiders in the lakes than before. Heard dowitcher song over the meadow lakes and we (Hamilton + I) found a 3 egg dunlin nest. The jaegers are more widely spaced here than in the VOHl-slough area. In the afternoon we went along the edge of Central Marsh to Wohlschlag Slough and up to the Brant Point snowy owl nest, then returned to the lab for the evening. We saw several small groups of ducks on Central Marsh and saw Pitelka's Steller Eider Nest. There are 4-5 pairs of territorial jaegers along the edge of the marsh but we found only two nests, one

10 July Barrow, Alaska

of which had been staked earlier (prob. June 22). There were noticeably fewer phalaropes in the marsh than before, and we saw 3 flocks of golden plover, 3-5 of Pectorals and 1 of Turnstone and Semipal. during the day. The jaegers towards Elson Lagoon are much more densely spaced than around Central Marsh - found 4 new nests and saw one other sitting; there are several pairs by the Brant Point Owl nest which we didn't have time to check. There was relatively little shorebird activity here but we found 3 dunlin nests without working to band and saw the Brant Nest. Had a time chasing a least weasel here and should have got some pretty good photos before it got tired of us. Little evidence of an off shore flight. Wohlschlag is almost ice free now and there is considerable water around the edge of Elson Lagoon which has attracted fewer birds. There don't seem to be as many Snowy Owls here as before. Spent the evening writing notes.

11 July Went with McClean and Hamilton to Ikroavik this day, leaving about 9:45 and getting back about 3 pm. It was foggy at the lab but clear with a westerly wind coming up in the afternoon at Ikroavik. It was a quiet day and birds were often found only as they flushed up ahead of us. After we entered "terra incognita" south of Footprint Lake the only species seen regularly were Jaegers, Pectorals and Phalaropes. The terrain here shows a little more

P. DeBenedictis
1965

11 July

Barrow, Alaska

variety than around the lab. Most of the area is low and wet, either rather boiling marshes or low-relief low polygons and small, relatively shallow lakes were not infrequently seen, and two large lakes, Ikroavik and a complexly shaped (probably composite of 4 smaller ones) lake to the west were visited; Ikroavik was ice covered except along the rim and there was thin ice on other of the smaller lakes. The appearance of the tundra was not much different than closer to the lab. The uplands here were largely rough, steep relief high polygon largely void of birds except jaegers and the few owls seen. Lemming workings were widespread and scattered individuals were noted almost everywhere, as well as a lone weasel. I would guess populations are comparable to those closer in. Pom. jaegers appeared to be in the 15-20, closer to 20, / mi² ~~level~~ and no groups nor any ~~odd~~ birds or other species were noted; few glaucous gulls were seen. Only 3 pairs of owls were noted and two nests, both with young, were visited. Pectorals and Phalaropes were the commonest species of shorebirds, and dunlins were conspicuous, the only species calling much; other than these only a few Golden plovers, in flocks and dowitchers were seen, plus the 1st white-rump I have seen in some time. Loons were seen in all the larger lakes, all Arctic & Red-thr. and an Arctic nest was found; Steller's Eiders were scattered, ~~a few~~ two groups of males being seen, and Oldsquaw were common on

P. DeBenedictis
1965

11 July Barrow, Alaska

the large lake west of Ikroavik and were also seen in many of the smaller pools. A flock of Brant + 3 drakes + a ~~[illegible]~~ pintail were also seen, plus 2 female Eiders either King or Common. Longspurs were not numerous but well distributed and Snow Buntings were almost nil. No odd balls and little evidence of flocking was obtained. Checked 2 semipal nests (1+19) on the way out but no change. Took a number of photos today (and yesterday). Perhaps the most impressive happening has been the formation of an ice ridge, in places about 20 feet high, ~~on~~ shore of Chuckchi Sea, during the night; McClure said it not not there at 3 AM and was certainly present by 8:30.

12 July got up late and went out behind the lab to check all the nests - Nests pusillus and bairdi: 4 were empty, and single birds only were seen at each. Little of note about. In the afternoon Bob, Steve and I went to Central Marsh to set out lines V-VIII, this lasting most of the afternoon. The marsh has dried fairly considerably and there were few birds along the margin - nothing in Holmes's Moras. Staked another jaeger nest and saw another sitting. We saw a line of 125 Common or Spec. Eiders on the way in and 2 groups of 100-150 ♂ Kings on the way back. In the evening went to VOTH area to check nests; all same except Alpines 2, which contained 4 freshly hatched young. McClure found a new dunlin nest with 3 young, 1 still

D. DeBenedictis
1965

12 July Barrow, Alaska

wet, and a piped egg. Spent the evening watching the lead for ~1 hour, but saw only Oldsquaw, loons and 2 Sabine's Gulls. A cold, drizzly day.

13 July Got up early and went out with Hamilton to help pick up lines II + III. It was foggy and windy. We saw a large flock of Common Eider on the way out but very little around the marsh; the jaegers are flocked up again a group of 60 or so were fighting about something on the ground. No birds along the trap line. In the afternoon went to the VRTH area to walk transects and checked a few nests. There were few birds present except for nesting ~~species~~ individuals, even in VRTH slough. The vegetation at the latter ~~spot~~ has changed markedly from the last time I was here, grown up considerably. The creek is now a series of pools + looks awful. There were only a few Phalaropes, almost no ♀s, around and the Dowitchers were gone - a number of ♀ Pectoral were in the area. The golden plover nest near IIIB was empty and no birds were about. On the way in I noted 4 dunlins which acted very concerned about my presence and search eventually produced 8 chicks. In the evening ~~came in~~ went out to the lines with Hamilton again - no change from before + no eiders. The ice on the lead was almost entirely moved out during the afternoon and there are hundreds of Oldsquaw off the shore now, and a few Steller's Eiders.

P. DeBenedictis
1965

14 July Barrow, Alaska

Went out with Hamilton to check the traps but little out; there were almost no shorebirds along the route in or out and few to be as we checked the traps. Hamilton found a phalarope nest on the way out and another and a semipal nest on the way in. It was clear but a cold wind from the east greatly lowered the temperature. Jaegers still flocked out in Central Marsh and an Arctic Loon was down in one of the pools there. Saw a small group of unidentifiable eiders on the way in + 5 Steller's + the nest in Central Marsh. In the afternoon went out to Gasline to check on the dowitcher that had been there without success. Walked a Transect on I + II, getting nothing. The Baird's still on the nest. Checked a few nests and found 2 Phalarope and a plover nest; there was a small group of Dunlin near the ponds west of the line, and I found a 6 egg Steller's Eider nest. We walked across the ridge and back along the other side but saw little. Jaeger widely spaced in this area. Went back to check nest 1 but only eggs. No mulch beyond Oldsquaw along the lead. Stayed in this evening.

15 July Went out in the morning to check nests behind the lab. The weather was windy, from the east, and rainy in the late morning and all afternoon. It was very quiet and few birds were seen. A number of the nests were empty and no trace of the birds could be found. No evidence of any having hatched. All

P. De Benedictis
1965

15 July

Barrow, Alaska

The Baird's nests were gone. Found two new Semipal nest. There was nothing in Micromet Marsh and a transect along lines IX and X was a blank. Came in wet and tired and spent the afternoon in the lab calculating. In the evening went out with Hamilton to take in Lines II-VIII; nothing but a longspur caught. A close hanger made a good tool for picking up the traps. It cleared up and the wind shifted to the west in the evening and the few shorebird seen here included a flock of golden plover; a small group of Common Eider were seen over Holmes Marsh and a large loon, prob Yellowbill. was seen on the way in. Saw the 1st fledgling Snow Bunting of the year in camp about noon. Stayed computing in the evening. Only song: Red-thr. Loon.

16 July Stayed in the morning and in the afternoon went with Hamilton to Elson Lagoon to look for what was there, and to check jaeger nests. The sky was partial cloudy, the wind strong from the east and it rained towards 6 pm. It was quiet, a few Turnstone + Plover calls being almost the only land noises made. There was very little to be seen until we got to the road to Elson, although we saw 2 groups of Eiders while going out. Found 2 jaeger nests, one with a piped egg, just after we crossed the Beach ridge and one nest found earlier has been destroyed. There is still another nest in the area but I can't seem to find it, The birds are sitting and there are a few non breeders along the lagoon. We saw

P. DeBenedictis
1965

16 July

Barrow, Alaska

several flocks of Eiders all going N and 9 & 9 - males along the lagoon and a few small groups of Oldsquaw, many on the water. The Brant nest is still ok but down is all over now. One of the dunlin nests had been stepped upon and we didn't check the others - photographed the plover nest. Saw L-T. jaeger for the 1st time in a while. There was a small group of Pectorals out in Holmes's Moraso and a few scattered 9s, but other than dunlin there were almost no Calidris about and very few Phalaropes, those seen all ♂s. Found one of the "lost" jaeger nest and in it 1 egg, 1 young + the egg shells; the nest was found June 22 + contained one egg. It appears to have been the one with 2 eggs June 24, meaning a short incubation or more likely a long interval between eggs. Stayed in this evening, nearly finishing the calculations I ~~need~~ am doing.

17 July Again stayed in the A.M. writing notes and working on the calculation. In the afternoon went to UOHM slough to walk transects and to try to photograph some shorebird chicks, succeeding on both accounts. I found both pair of dunlin that were there last time and two chicks, and also 2 pair of Semipals with chicks, each with two chicks only as far as I could tell. I also found a new Semipal. nest. Several of the nests were empty and at least two appear to have hatched successfully. There were a pair of Pom. Jaeger in the empty areas here last time and one acted like it had a nest. Little change in owl story. I walked II B + A

P. DeBenedictis
1965

17 July

Barrow, Alaska

finding birds only along IVA in the ponds and VI-XII, finding a flock of Pectorals. There were prob. more Pectorals and dunlin than Phalaropes around! Saw a Peregrine Falcon. The 1 yg. trap. nest empty save one egg, and I couldn't find the Semipals in a very brief search. Some of the slower tired chicks can really run. Hamilton said some of the Microment nests are hatching and went to 1 and 6. There was nothing at 6, but at least 1 Semipal in the area, nor anything in the trap. nest there (but a ♂ still there) and the young were just hatching at Nest 1. Saw two flocks of eiders, one that looked to be ♀ or eclipse ♂ Kings and one unidentified.

18 July Rained almost all day. Didn't go out. finished calculations!

19 July Rained am., more or less clear in the afternoon. Wind from west and damp all day. Ice blew back in in the early afternoon and really going by in the evening. In the afternoon tried to take weasel to set out I, XI, IX, X, but it overheated before we got out to AACS so we walked to meadow lake and then back and I got the vehicle back to camp. The area is about like late June in terms of water, and very few shorebirds on the ground. Two of the nests have hatched out. Saw a flock of Oldsquaw and a L-T. Jaeger by meadow lake and the snowy owl nest is really doing well, 4 y, 1 almost ready to fly. In the evening watched the lead for a while, seeing loon, oldsquaw, 5 alcids (sp.?), Arctic Tern. L-T. Jaeger. Glaucous and a probable 1st year Herring Gulls, and 2 ♀ Eiders.

P. De Benedictis
1965

20 July

Barrow, Alaska

Stayed in the am. writing notes. In the afternoon went with Hamilton to set Lines IX, X, I & II. It was clear and the wind was slight, shifting to the ~~east~~ in the late afternoon. It was quiet and wet from the recent rain. There were few birds to be seen in the micromet area, nothing much being noted as we set out the lines. There were a couple of oldsquaw on N Meadow Lake. The gasline Ridge area contained a few dunlin, apparently with young, and the 1st downy young golden Plover of the year were found by McClure who joined us. The Baird's Nest was empty, and the eider nest appears to have been broken up. After we had finished with the lines I photographed the plover chicks and checked the jaeger nest by the ridge, then went out behind the Meadow Lakes, where I found a 3 egg phalarope nest. Found a 4-egg nest on the way in. There was a large flock of eider over the Central Marsh area, and we saw two smaller flocks at the lab. Watched the shoreline for a while in the evening; We had taken Steve to Duck camp and saw several groups of King Eiders there (slightly 95% King, rest Common – 1 Brant) and eiders were going by in the evening; saw a few gulls and oldsquaw and loons and 1-3 L-T Jaegers or Terns far out and a possible alcid. The wind was fairly strong in the evening and the action over the water was not like that of yesterday.

P. DeBenedictis
1965

21 July Barrow, Alaska

Slept late and went out after lunch to check the nests on Pitelka's plot – all had failed except the eider and possibly dunlin as I heard them on the plot. Saw little on the way out but a small ~~group~~ group of jaegers which turned out to be Long-tails. They proved to be scattered all over the marsh, most on the ground where they could hardly be seen, and 1-2 Arctic Terns were with them. Few shorebirds – a flock of ratty-looking golden Plovers on Pitelka's plot with 2 dunlin and a group of 6 Pectorals with 2 other plovers just N of the plot, and 1-2 phalaropes flying about. We went to Elson Lagoon to check on the jaegers and watch eiders. Of the nests there most had 1 and ~~may~~ many 2 young; a few still in eggs. One pair has disappeared – a snowy owl by the old nest. Few shorebirds – the golden plover hatching today. Saw lots of eiders and a few oldsquaws, 1 L-T. Jaeger and 2 Nice Arctic Terns. One longspur with no tail really threw me at first. Came in about 5 and spent the evening catching up on my notes. The ice blew out sometime during the night and the ~~had~~ was clear all day.

22 July Got up early and after finishing my notes went out behind the lab to check nests. The ~~s~~ sky was about 1/2 overcast and a strong wind from the west the whole day, depressing the temperature greatly. I found a pair of semipals. with chicks right away and then saw very few

22 July

Barrow, Alaska

birds until I was out near HACS. Here I found that one of the semipal nests was hatching, the Pectoral Nest had hatched (young in the nest) and located all the semipals I knew to have made it. Nests 11 + 12 had hatched earlier and there was a dead chick in 11. Nest 23 was cold, 4 eggs. I ran back to the lab to get my camera to photograph the pectoral chicks and right by the animal hut I found a very dead warbler that appears to be *Wilsonia canadensis*. I took the camera out to the pectoral nest + photographed the chicks + ♀. In the afternoon went to the VOTHanna to check nests. All checked were empty and several ~~sb~~ semipals (with young) were noted along the road. There was a large group of Plover near III~~A~~-B and I walked a transect there. Walked XI-XII, getting Pectorals and a phalarope and saw a few more plovers, then came back and walked III A-B, finding 2 ♂♀ dunlin (with chicks?) and seeing several semipals. The jaegers don't appear to have hatched and some evidence of nest predation found. No evidence of phalarope hatching. There were a few Glaucous gull on the ~~[illegible]~~ ridge south of South salt lagoon including a few puzzling immatures. Stayed in the evening writing ~~no~~ notes. Movie was "Lolita", which was good! There was little evidence of eider flight until the evening when shots from duck camp + several flocks on the lead attested to it.

P. DeBenedictis
1965

23 July

Barrow, Alaska

Went out to Central Marsh to walk transects on IV–VIII and to check on the jaeger there. I was also able to remove a number of shorebird nest stakes. The jaegers on the road out have hatched and I saw 1 chick at the 1st nest along the road to the ridge. The Baird's Nest there was hatching and I photographed the chicks. There were 4 Golden Plovers + a pectoral along the road here; in Central Marsh there were 8 Black bellies and 3 L-T. Jaegers plus 5 on the ridge near USC+GS. Saw 5 more plover (Golden) on the ridge N of Pitelka's plot. Walked the transects, getting NOTHING! The jaeger nest at the end of II (post 10) was empty and found 1 chick; the other nests in this area were empty or the adults not sitting but no chicks seen. On the way in there were about 21 Golden Plover + only 1 Black-belly + 4 Baird's Sandpipers in the marsh and the L-Tails had disappeared. The wind of yesterday continued though not quite as strong - a fog made it just as miserable. No sign of a Eider flight. Went along the N edge the Marsh to N. Meadow Lake (finding 2 more Golden Plovers) and in seeing a pair of semipals near the AACS shacks. Quiet day.

24 July

Stayed in the morning and in the afternoon went out to help Bob with lines 3+4. It was only partly overcast and the wind has declined considerably, though still from the west. We saw little on the way out and there were few

24 July Barrow, Alaska

birds on the ocean or near Lines IV - phalaropes and jaegers at the latter only. There was a lot more action at Lines III, where there were at least 2 pairs of semipals with young and a pair of Dunlin with young plus a flock of Golden Plover and 3-4 apparently non-breeding Semipals. Heard two Pectorals here. The jaeger nests unchanged except that another marker gone and can't find trace of the nest though the pair present. Bob had the "wins" and took the weasel in, I walked in later. Shots from duck camp in the evening and night. A few vacationing and birdwatching said he had seen 2 Buff breasts that he thought had young near VOTH and Hamilton, he and I went out about 9 to look, without success. The area was the flat just west of Isoline and his birds probably migrants. We saw 2 pairs+ of golden plover that acted like they had young + 3-4 pair of Dunlin and Semipals - even though no nests had been found in the area - saw 2 large semipal chicks and the 1st phalarope chicks of the year. Found a new jaeger nest ~~and~~ another was empty, though jaeger present, and most surprisingly saw 3 White rumps. The 6-egg Steller Eider nest OK; the owl nest with 5 young in the bowl, 1 out + ~ 15 lemmings along the edge. Got in about 1 AM. and wrote notes.

25 July Awoken early by McClain and by 730 Bob and I were off to try and catch up with him in one of the old, beat up weasels - after picking up trap lines III + IV. It was

P. DeBenedictis
1965

25 July Barrow, Alaska

clear and not very windy, a warm beautiful day in all we had to walk! We ran lines III + III in 20 minutes! seeing little (and catching little) then took off for Footprint Lake where we were supposed to meet McLean who wasn't there. This was important as he not only knew where we were going but also had our lunches. I then went down to Ikroavik, where he was still not to be seen. Found a weasel road along the west side and followed it south the length of Ikroavik and the next large lake south. Here we gave up and decided to work back along the east side of the lakes, finding a Sabine Gull, Arctic Tern Colony about ½ mi. E of the south end of the next large lake south of here. We then found McClean and followed him to the N. end of Lake Sungovak, about 14 miles due south of the lab area. Here Bob and I turned back, going east about a mile then around two lakes and to the old gas well and along the same route in home, getting in about 530. The country here is clear and much of it is quite low and wet, the relief being mostly areas of high center polygons. The major feature of the landscape was the large lakes, mostly oriented N-S and all but the largest and deepest ice free. The area is much more uniformly grass covered than around the lab and the marshes were quite green! considerable shallow standing water. Birdwise there were no large flocks of anything except Golden Plovers, and then only to about 10, and female Steller's Eiders, but

P. DeBenedictis
1965

25 July — Barrow, Alaska

Shorebirds, Jaegers, Snowy Owls and Oldsquaw widely and generally distributed. Saw downy young dunlin (~~two~~ three broods), golden plover and dowitcher and found a nest of Red Phalarope. Saw my 1st Oldsquaw and Sabine Gull nests, and checked one Snowy Owl nest. Lemmings appeared to be somewhat more numerous there than at the lab and were found in some very wet areas. No other small Mammals seen. Jaegers somewhat less common as one goes south of Ikroavik but probably a reflection of the low wet topography; no change in Snowy Owls. Nothing that really surprised me except the dowitchers, and pleased to have had a brief look at the Sabine's Gulls.

26 July. Stayed in the A.M. finishing my notes. Went out to duck camp in the afternoon but few eiders going by, mostly Kings and a few Commons; only 1 or 2 ♀s. Oldsquaw going both ways as usual, and gulls not doing much. The Kittiwakes were all adults and the murres were fairly far out; the Parasitic Jaeger was a light phased bird. One prob. Yellow-billed and several small loons, only Red-thr. for sure. In the evening went with Bob. to III + IV. Few shore birds in the area, and it was quiet. Two jaeger nests with 2 eggs, 1 piped + 1 cracked; one nest with 1 young + 1 egg and found a 1 egg nest of a pair that began to act like they were nesting c. July 17. No other pairs in the area. There were 2 ♀ King Eider on a pool near IV and the last semipal nest with 2 eggs + 1 chick. Watched the ocean for a short while but

Barrow, Alaska

26 July other than 2 ♂ King Eider on a ice berg little around. Worked out a pretty good way to tell Arctic from Red-throated Loons from below. Arctics have Black axilars with contrasting white wing lining while Red throated dull white with white or gray axillaries:

Almost no Snowy Owls near the FAA Tower now.

27 July In the morning went Hamilton to the trap lines to check nests. Few shorebirds by lines 3 and the jaeger nest out of there with one chick only. Nest pusillus 19 with 2 cold eggs, the adults nearby. Saw 4 Golden Plovers by lines 4 and 5 Long-tail Jaegers and a 2nd year Herring Gull with the Glaucous gulls in the Barrow Dump. Watched the ocean for a while, then went in. After lunch went to USC+GS with McClean and walked in seeing few birds on the way in. 6 Long-Tail Jaegers and 4 Golden Plover in Central Marsh + the usual pomarines. The pomarine nest behind AACS with one egg and pusillus nest 25 broken up. Saw no semipals in the area at all. Went behind the theater from about 4 to 5:30 watching birds go by on the Chuckchi sea. During the 1st hour Kittiwake were numerous and alcids scarce, later many alcids and a few Kittiwakes. In addition to the species listed I saw one bird that was probably a Tufted

P. DeBenedictis
1965

July 27 Barrow, Alaska

Puffin and a smallish gray colored bird following two either Murres or Oldsquaws, which was either a winter-plumage guillemot or a Kitzlit's Murrelet, prob. the former. The eiders seen were mostly going east and several ♀ Somateria were seen. In the evening went back to line III + III, to check nest 19. It was cold and the eggs collected. They weighed 5.9 and 6.8 gms and were infertile. Saw a few murres and oldsquaws and most of the King Eiders along the shore; It had been clear and windy from the NE all day and about 4 it clouded up and rain after about 6. Dull day.

July 28 Stayed in this morning due to east wind and light rain and in the afternoon went to line III + III with Hamilton. Saw a small flock of eiders, prob. King, on the way; there was little near the trap lines and the area was quiet. Watched the ocean for a while seeing a few murres and Kittiwakes all going east, and a few small groups of eiders going west. Stayed in the evening.

July 29 Went out by the Ocean for about ½ hour seeing 1 Par, 1+ L-T. Jaeger, 2 Murres (1 Thick-bill) and a Kittiwake and lots of eiders to far out to identify. In the afternoon went to central Marsh with Hamilton and after setting Line VI walked to Elson Lagoon to check jaeger and watch eiders. There was almost nothing on the Marsh but the golden plovers from the Central Wanigan moved over to Pitelka's plot and were screaming away. Saw both chicks of the jaegers down by the 10.0 end of line VI,

P. DeBenedictis
1965

29 July

Barrow, Alaska

all of the jaegers except the pair by the well manager appeared to be present and 3-4 young were seen. There were a few golden plovers on the dry grassy flat by the upper of Wohlschlag but nothing else other than phalaropes here. Saw one flock of ~45 goldens circling along the shore of Elson Lagoon and move into the Central Marsh area, and there were 4 Black-bellies with a golden along the lagoon. The eiders almost completely stopped going by while I was along the lagoon, but came on strong after 4:30 pm. Saw several groups of up to 500 birds, about 5000 during the afternoon, ~4-6 to 1 King/Common, and one flock with 6 Thick-billed Murres. Found a ♀ Steller in Holmes' Morass with 5 chicks, and a pair of dunlins with at least 2 chicks about the size of those seen by Ikroavik last trip, and a pair of jaegers caught 3 weasels from a family while I was there. Saw a Bairds in Holmes Morass on the way in and found Hamilton had parked the weasel on Pitelka's plot for me to take in. After the movie ("How to Murder a Rich Uncle") went to the Fertilizer plots with Hamilton to look for some downy White-rump sandpipers he saw this morning. This was not successful but we saw a flock of 15 ♂ Phalaropes, 2+ Arctic + 2+ Red-thr. Loons and 4 ad. ♀ one with 4 chicks, Spectacled (at last!) Eiders, so the day ended pretty well. Still lots of eiders going past

P. DeBenedict:
1965

29 July — Barrow, Alaska

along Elson Lagoon, a few flocks going inland. The area here is ~~wet~~ wet with many small lakes like the area south of Ikroavik, and phalaropes are much more numerous in the area than closer in to the lab. The jaegers were in the ~~10/20~~ 15 to 20/mi.^{2} habitat and all with young. Saw many snowy owls but the only nest found had two jaeger eaten eggs and no adults about. Got in about midnight and wrote notes the evening.

30 July — Went out to watch the ocean behind the lab for about ½ hour in the morning but saw little besides a few loons and Glaucous gulls. No eiders. In the afternoon ~~[illegible]~~ went to make another try for the white-rump which Bob saw again and found her + 3 chicks about the same age as most of the dunlin chicks around now. - flight feathers just beginning. Spent most of the afternoon at this then came and packed. The trip in was interesting. The country by Barrow is all lakes, filled or not, little ice, with almost random stream + lake drainage capture. Only relief is low polygonal ground, on which owls could often be seen at great heights (1000 ft.). Near ~~[illegible]~~ Umiat the terrain dryer, rolling low foothills, with low willow-alder in the larger stream valleys. Saw 2 ? ducks, 3 Northern Phalaropes, 1 Snow Bunting and 1 finch (sp.) in Umiat. Cloudy the rest of the way in. Got to San Francisco 10 A.M July 31

P. DeBenedictis
1965

TRANSECTS.

Barrow, Alaska

2 July — Walked 25 ft out side each line, taking all birds in a 100 wide strip, the length of the transect; then from end post of one line to end post of 2nd four-6 feet out, taking strip 100 ft wide.

TRAP LINE - V 10:45 to 1107 AM - no birds - Red Phalaropes seen in Holmes Morass out side transect and 1 ♂ landed in transect after I passe. Direction Post 0.0 to Post. 10.0.

POST 10.0 ~~of~~ Line V to Post 10.0, Line VI.
1107 to 1120. (Holmes's Morass)

Pd	tr	sat	3/0	M	0/0	C_3	+	+ = feeding
Pd	"	"	"	"	"	"	+	
Ls	tr	2" deep sw	3/0	M	0/0	C_3	probe.	Limnodromus
Pd	tr^d	sat	3/0	M	0/0	C_2	+	
Pf♂	tr	3" deep sw	—	—	—	C_3	spin	

TRAP LINE VI, post 10.0 to post 0.0. 1120 - 11:33 am
(all birds in Holmes's Morass)

Pd	rp	w	1/0	Mh	0/0	C_0	?	disturbed when 1st noticed; ? may have been in trough
"	"	"	"	"	"	"		
Pd	tr	sat	3/0	M	0/0	C_3	pk	
Pf♂	tr	6" deep sw	—	—	—	C_3	spin	bottom mixture cutting & moss.

TRAP LINE VI, post 0.0 to Trap V, post 0.0
11:33 to 11.37 am. Snow on ground, no birds in area.

P. DeBenedictis
1965

TRANSECTS
BARROW, Alaska

2 July — TrapLine VIII, post 0.0 to post 10.0. 1145–1207
(birds evenly dispersed, whole area somewhat flooded

Pf♂	f[d]	2" dep sw	1/0	CM*	—	C_3	+	one group
Pf♂	"	"	"	"	"	"	"	
Pf♀	"	"	"	"	"	"	"	
Pf♀	"	"	"	"	"	"	"	
Pf♀	"	"	"	"	"	"	"	
Pf♂	"	4" deep sw	"	"	"	"	"	together, same pool as above group.
Pf♀	"	"	"	"	"	"	"	
Pf♂	"	1" dep sw	1/0	CM	—	C_3	+	together –
Pf♀	"	"	"	"	"	"	"	
Pf♂	"	"	"	"	"	"	"	
m♂	"	sat	2/0	M	0/1	C_3	+	together
m♂	"	"	"	"	"	"	+	
m♂	f	sat	3/0	M	4/1	C_3	+	
m♂	f	sat	3/0	M	0/1	C_3	+	
pf♂	f	2" dep sw	2/0	M	(2/0)	C_3	+	feeding in opening between plants
m♂	f	sat	1/0	B	0/0	C_1	0	
Pf♂	f	1" dep sw	"	"	"	"	+	together
Pf♀	"	"	"	"	"	"	+	
Pf♂	f[a]	4" dep sw	1/0	B	0/0	C_3	+	with 8ft each other in weasel tracks.
Pf♂	"	"	"	"	"	"	+	
Pf♀	"	"	"	"	"	"	+	
Pf♀	"	"	"	"	"	"	+	

CM = bottom mixture of cuttings + moss.

P. DeBenedictis
1965

TRANSECTS
Barrow, Alaska

2 July — TRAP LINE VIII, post. 10.0 to TRAP LINE VII, post 10.0. 1207–1212 pm.

(2/3 area under water., birds evenly distributed)

Pf ♂	f^d	4" deep sw	—	CM	—	C_3	+	
*Pf ♂	f	4" deep sw	2/0	CM	—	C_3	+	
Ls	f	2" deep sw	3/0	CM	—	C_3	+	together
mauri ♂	f	sat	3/0	B	0/>1"	C_3	+	together
mauri ♀	"	"	"	"	"	"	"	together
Pf ♀	f	4" deep sw	1/0	M	—	C_2	spin	
*Pf ♂	"	"	"	"	"	"	+	

* probably same bird.

TRAP LINE VII, post 10.0 to post 0.0. 12:12 to 12:31 pm.

(½ line flooded, most birds betw post 5.0 + 10.0.)

Pd	f	sat	2/0	CM	0/>1	C_3	+	together
Ls	f	3" depp sw	1/0	"	"	"	"	together
m ♂	"	1" depp sw	"	B	0/0	C_3	+	together
m ♂	"	"	"	"	"	"	"	together
Pf ♂	f^d	3" deep sw	1/0	CM	—	C_3	little feeding	
Pf ♂	f	sat	0/0	Sphagnum	0/0	C_0	preening	pair
Pf ♀	"	"	1/0	"	0/0	C_1	sleeping	pair
Pf ♂	"	sat	3/0	M	2/0	C_2	+	
Pf ♂	"	1" deep sw	1/0	?M	—	C_3	cutting-Moss bottom	
Pf ♀	"	sat	3/0	M	2/0	C_2	+ with indicated ♂	
m ♂	"	sat	2/0	M	3/1	C_3	+	
Pf ♀	"	4" deep sw	0/0	M	—	C_3	+	
Pf ♀	"	sat	2/0	M	2/1	C_2	+	

~~Pf ♀~~

(Next page)

P. DeBenedictis
1965

TRANSECTS
Barrow, Alaska

2 July TRAP LINE III, post 10.0 to post 0.0 (cont).

Pf♀ f 4"dep sw 0/0 M — C_3 + } together
Pf♀ .. ..
Pf♂ .. sat 2/0 B 0/2 C_3 + } together
Pf♀ .. ..

5 July walked 50' to out side of trap line, censusing as previously.

TRAP LINE III B, post 0.0 to post 10.0. 8:45-8:48 am.
ground saturated some pools, rather uniform.

* Pf♂ lp 4"dep sw 0/0 B 0/0 C_0 spinning
Pf♂ lpd 1"dep sw 1/0 B 0/4 C_1 pk (in weasel track)

* belongs in transect line III post 0.0 - IV B, post 0.0.

TRAP LINE IV B, post 10.0 to TRAP LINE IV A, post 10.0
8:48-8:49 am. as above
No birds seen.

TRAP LINE IV A, post 10.0 to post 0.0 8:49-8:58
1/2 transect lakes; most sat & a few polygon rims.
No birds. Red Phalaropes feeding in flooded area between lines IV A & IV B.

TRAP LINE III A, post 0.0 to TRAP LINE IV B, post 0.0

Pf♂ Pd[d] 8" sw 0/0 B 0/0 C_0 spin } together
.. ♀ .. ..
Pf♂ .. 2" sw 1/0 " 0/4 C_1 pk } together
Pf♀ .. ..

P. DeBenedictis
1965

TRANSECTS
Barrow, Alaska

~~5~~ July — LINES III A + B, (concluded).

only species seen in transect are Red Phalarope; more between transects than around.

— + —

TRAP LINE XI, post 0.0 to post 10.0 9:17 to 9:37

about 1/3 - 1/2 trap line under water. bottom a mixture of cuttings + mud, the cutting washed away in stream bed. stream only as stagnant pools + flowing ∅ in transect area.

Pf♂	*f^d	≥1" sw	0/0	B	0/1	C_2	+	together (+ = feeding)
Pf♂	*f d	..	"	..	..	..	+	together
Pf♀	*f^d	..	..	..	..	..	+	together
Pf♂	*f^d	..	..	..	..	..	+	together
Pf♂	*f^d	2" deep sw	1/0	B	0/3	C_1	+	
Ls	*f	..	2/0	..	..	..	+	together (Ls = Limnodromus)
Ls	*f^d	..	..	..	..	..	+	together
Ls	*f^d	..	..	..	..	..	+	together
Ls	*f^d	..	..	..	..	..	+	together
Ls	*f^d	Sat	2/0	B	0/1	C_1	+	together
Pf♂	*f	3" deep sw	1/0	B	0/1	C_1	+	together
Pf♀	f	>1" deep sw	1/0	B	0/1	C_1	+	
Pf♂	..	≥1" deep sw	0/0	B	0/0	C_1	+	
Pf♂	"	1" deep sw	1/0	B	0/1	C_1	+	together
Pf♂	..	..	..	..	..	..	+	together
Pf♂	..	>1" deep sw	1/0	..	..	..	+	
Pf♂	..	1" deep sw	..	..	..	..	+	together
Pf♂	..	..	..	..	..	..	..	together
Pf♂	..	3" deep sw	..	..	..	..	..	together

P. DeBenedictis
1965

TRANSECTS

Barrow, Alaska

5 July — TRAP-LINE XI, 0.0 to 10.0, (cont.)

Pf♂	f	3" deep sw	1/0	B	0/1	C_1	+	} with last 3 ♂s.
Pf♂	f	2" deep sw	1/0	B	0/2	C_1	+	
Pf♂	*f	4" deep sw	1/0	B	0/3	C_1	+	
Ls	*f	2/0 sw	2/0	B	0/2	C_1	+	} together
Ls	*f	"	"	"	"	"	"	
Pf♂	* "	>1" sw	2/0	B	0/2	C_2	+	
?	"	sat	1/0	B	0/1	C_1	+	
Pf(♂?)	f	3" sw	0/0	B	0/0	C_1	pk	
Pf♂	"	"	1/0	B	0/1	C_1	pk	
Pf♂	"	"	0/0	B	0/0	C_1	pk	
Pf♂	"	1" sw	2/0	B	0/2	C_1	pk	
Pf♀	"	3" deep sw	2/0	B	0/2	C_1	pk	

* these are along the stagnant stream.

TRAP LINE XI, post 10.0 to TRAP LINE XII, post. 10.0
9:37–9:42 am; about 1/2 in NORTH creek, little current.

Pf♀	st	2" deep sw	1/0	B	0/2	C_1	+	
Pf♀	st	8" sw	7/0	B	6/8	C_0	+	
Pf♀	f	1" sw	1/0	B	0/2	C_1	+	
Pf♂	f	1" sw	"	"	"	"	+	} together
Pf♂	f	"	"	"	"	"	"	
Pf♂	f	1" sw	2/0	B	0/3	C_1	+	

P. DeBenedictis
1965

TRANSECTS
Barrow, Alaska

5 July — TRAP LINE XII, post. 10.0 to post 0.0 — 9:45 - 9:55 am

only last 100' in water, all birds betw. post 3.0 & 0.0.

Pf ♂	f	w	0/0	—	0/0	C_3	+	feeding on mat of cuttings, few motions
Pf ♂	f	sat	3/0	B	0/2	C_3	+	
Pf ♂	*f	>11" deep sw	1/0	B	0/1	C_1	+	
Pf ♂	*f	3" deep sw	0/0	B	0/0	C_1	+	together
Pf ♀	*f	"	"	"	"	"	+	together
Pf ♂	*f	1" deep sw	1/0	B	0/1	C_1	+	
Pf ♂	f	sw	0/0	B	0/0	C_1	+	

* in stagnant stream "eddies"

TRAP LINE XII, post 0.0 to TRAP LINE XI, post 0.0.

9:55 to 10:00 am. about 1/2 in ~~stre~~ Vath creek, rest dry. all birds in the creek or along its edges, creek stagnant except where noted*.

Pf ♂	*st	2" deep sw	2/0	B	0/2	C_0	+	
Pf ♂	*st	4" deep sw	1/0	B	"	"	+	together
Pf ♂	*st	"	"	"	"	"	+	together
Pf ♂	st[el]	2" deep sw	1/0	B	0/2	C_1	+	
Pf ♀	*st	6" deep sw	1/0	B	4/0	C_0	+	
Pf ♂	st	2" deep sw	1/0	B	0/2	C_1	+	
Pf ♂	st	>1" deep sw	1/0	B	0/2	C_1	+	

only other species seen was Western Sandpiper.

See journal.

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1965

TRANSECTS

Barrow, Alaska

5 July — TRAP LINE III, post 10.0 to post 0.0 — 3:10 to 3:24 pm. (~~3:10–3:24~~)

~25% under water rest wet; birds evenly distributed

Pf♀	f	2" deep sw	1/0	B	0/1	C_0	+	
Pf♂	"	"	"	"	"	"	+	together
Pf♀	"	"	"	"	"	"	spin	together
m♂	"	sat	3/0	"	2/2	C_3	+	
Pf♂	"	>1" deep sw	0/0	"	0/0	C_0	+	
Pf♀	"	sat	2/0	"	2/0	C_1	+	
Pf♀	"	2" deep sw	0/0	"	0/0	C_0	+	
m♂	"	sat	2/0	B	4/2	C_1	+	
Pf♂	"	sat	2/0	B	4/0	C_1	—	
Pf(?♂)	"	sat	3/0	B	4/2	C_1	+	
Pf♂	f^a	>1" deep sw	●/0	B	1/0	C_0	+	together
Pf♂	"	"	"	"	"	"	+	together
Pf♂	"	1" deep sw	0/0	B	0/0	C_0	+	together
Pf♂	f	2" deep sw	0/0	B	0/0	C_1	+	
Pf♀	"	"	1/0	"	0/1	C_1	+	
m♀	"	sat	2/0	B	4/0	C_3	pk	

Pluvialis + Limnodromus seen off transect.

TRAP LINE VII, post 0.0 to post 0.0, TRAP LINE VIII
3:24–3:29 pm about ½ ~~area~~ under water, even dist., in wet area.

Pf♂	f^a	2" deep sw	●/0	B	0/1	C_1	spin
m♂	f	sat	1/0	M	0/0	C_3	+
Pf♀	f^d	4" deep sw	0/0	B	0/0	C_1	spin
Pf♀	f^d	2" deep sw	●/0	B	2/0	C_1	+

d = weasel tracks

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TRANSECTS
Barrow, Alaska

5 July TRAP LINE: V, post 0.0 to post 10.0 2:15 to 2:23 pm
No Birds; Pf. (Red Phalarope), Calidris pusillus + mauri seen outside transect in Holmes's Morass.

TRAP LINE ~~VI~~, post 10.0 to post 10.0, TRAP LINE VI
all Holmes Morass. 2:23 - 232 pm
Pf♂ tr 2" deep sw % B % C_3 spini
Pf♂ tr 1" deep sw % B % C_3 " } same bird.
Pf♂ tr 3" deep sw % B % C_3 spin
1 golden plover seen off transect.

TRAP LINE VI, post. 10.0 to 0.0 232 - 240 pm.
2 Red Phalaropes seen just off transect in Holmes' Morass; 1 (in trough, flooded) would have been on if covered as on July 3.
NO Birds.

TRAP LINE III, post 0.0 to TRAP LINE II, post 0.0.
1/2 area under snow + ice rest on Beach Ridge.
No Birds, ~~none~~ seen near ~~the~~ transect.

—— + ——

TRAP LINE VIII, post 0.0 to post 10.0. 2:52 - 3:04 pm.
slightly less water than July 3; even distribution.
Pd f sat 3/0 B 4/0 C_3 —
m f sat 3/0 B 2/0 C_2 —
Pf♂ f 2" deep sw 1/0 B 3/1 C_2 +

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1965

TRANSECTS
Barrow, Alaska

5 July TRAP LINE VIII, post 0.0 to 10.0 (cont.)

Pf♂	f	2" deep sw	1/0	B	3/1	C_3	+
m♂	~~sat~~ f	sat	1/0	B	0/2	C_3	+
Pf♂	~~[illegible]~~ f	4" deep sw	1/0	B	0/0	C_3	+
Pf♀	f	1" deep sw	1/0	B	1/1	C_0	+
Pf♀	f	2" deep sw	2/0	B	0/3	C_1	+

Limnodromus seen outside transect.

~~TRANSECT~~

TRAP LINE VIII, post 10.0 to TRAP LINE VII, post 10.0

flooded 3:07 to 3:10 pm.

Pf♂	f	1" deep sw	2/0	B	0/2	C_1	+	} together
Pf♀	f	1" deep sw	"	"	"	"	"	} together
Pf♀	f	2" deep sw	0/0	B	0/0	C_0	+	
Pf♀	f	1" deep sw	1/0	B	0/2	C_1	+	
Pf♀	f	"	"	"	"	"	+	
Pf♂	f	>1" deep sw	1/0	B	0/2	C_1	+	} together
Pf♂	f	"	"	"	"	"	"	} together
Pf♂	f	"	"	"	"	"	"	} together
Pf♂	f	2" deep sw	0/0	B	0/0	C_1	spin	
Pf♀	f	1" deep sw	0/0	B	0/0	C_1	"	
Pf♀	f^d	1" deep sw	1/0	B	0/4	C_2	"	
Pf♂	f^d	6" deep sw	0/0	B	0/0	C_0	"	

bottom in most areas a mixture of moss, cuttings + muck, called muck. Cuttings refers to the "purity" of the cuttings over this mixture throughout.

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1965

TRANSECTS
Barrow, Alaska

5 July — TRAP LINE IIIA, post 0.0 to post 10.0. 7:22–7:29 pm.
dry. 1 ♀ Phalarope in a trap and a dunlin on a nest off the line
No Birds.

TRAP LINE IIIA, post 10.0, to TRAP LINE IIIB, post 10.0.
dry except in some troughs. 7:29–7:37 pm

Pf♂	tr	sat	0/0	B	0/0	C_3		turning moss.

TRAP LINE IIIB, post 10.0 to post 0.0. 7:37–7:55 pm
considerable water either in ponds or flooded pond rims and low polygons. Birds around water.

m♂	lp	sat	3/0	B	0/1	C_0	+	
Pf♀	lp	≥1" deep sw	2/0	B	0/1	C_0	+	together
Pf♂	"	"	"	"	"	"	+	together
Pf(?♀)	"	"	"	"	"	"	+	together
Pf♂	pond	8" sw	0/0	B	0/0	C_2	+	
Pf♂	"	4" sw	1/0	B	0/0	C_2	+	
Pd(♀?)	rp	w	0/0	ML	0/0	C_0, Gr	O	together
a♂	rp	w	2/0	ML	2/0	C_1	+	together; sexes of dunlin may be wrong.
a♀	pond	w	3/0	"	"	"	+	together; sexes of dunlin may be wrong.
Pd(?♀)	rp	w	2/0	ML	0/0	C_2	O	
Pd(♀?)	rp							on nest.
Pf♂	pond	8" sw	0/0	B	0/0	C_2	+	
m♂	pond	sat	0/0	M	0/0	C_3	O	
m♀	"	"	3/0	M	2/0	C_3	+	
m♂	tr	3" sw	1/0	B?	0/2	C_0	?	chased by plover when noticed.

(cont.)

P. DeBenedictis
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TRANSECTS
Barrow, Alaska

5 July — TRAP LINE III B (concluded)

Pf♂	pond	2" sw	1/0	B	0/2	C_1	+	} together
Pf♀	"	"	"	"	"	"	"	

TRAP LINE III B, post 0.0 to TRAP LINE IIIA, post 0.0
7.55 - 7.59 pm   Mostly dry

a	1p	sat	2/0	M	2/2	C_1	—	distraction display (nest later found.)

7 July — TRAP LINE IX, post 0.0 to post 10.0   10:18 to 10:25 am.
most transect dry, ~~all in~~ birds in "non-polygonized" area.

Pf♂	1p	sat	2/0	B	1/0	C_1	+

m♂ flushed from behind polygon ridge before location noted.

TRAP LINE IX, post 10.0 to TRAP LINE X, post 10.0.   10:25-10:27 am
1/4 stream, rest high polygons
No Birds; none seen near transect.

TRAP LINE X, post. 10.0 to post 0.0.   10:27-10:40 am.
all birds seen along stagnant stream. B = mixture ~~cuttings~~ cuttings and dead moss.

m♀	st	sat	1/0	B	4/2	C_1	+	} loose flock
m♀	f	d	2/0	M	0/0	C_3	+	
m♀	f	d	2/0	M	0/0	C_3	(little feeding)	
m♀	f	d	2/0	M	0/0	C_3	0	flew in, landed during transect.
m♀	st	sat	2/0	B	4/2	C_1	+	
m♀	st	sat	2/0	B	4/2	C_1	+	

(cont.)

P. DeBenedictis
1965

TRANSECTS
Barrow, Alaska

7 July TRAP LINE X, post 10.0 to post 0.0 (cont.)

Pf ♀	st	2-4" deep sw	1/0	B	0/3	C_2	ph	
Pf ♀	f	1" deep sw	0/0	B	0/0	C_2	"	
m ♀	f	sat	1/0	B	0/1	C_2	+	
m ♀	f	sat	2/0	½B ½M	2/0	C_1	?	together seen only to rise from area.
m ♂	"	"	"	"	"	"	"	

TRAP LINE X, post 0.0 to TRAP LINE IX, post 0.0.
10:41 to 10:44 pm. rather dry; weasel came along while making transect.
No Birds seen; only Phal. fulicarius near transect (above).

TRAP LINE III A, post 0.0 to post 10.0 4:21-4:30 pm.
fairly dry except in polygon troughs
m ♀ tr 1" deep sw 1/0 B 0/4 C_3 +
Red phalarope seen just off the line.

TRAP LINE III A, post 10.0 to TRAP LINE III B, post. 10.0
4:33 - 4:36 pm. dry
No Birds seen on or near transect.

TRAP LINE III B, post 10.0 to post 0.0 4:36-4:40 pm.
Considerable water in pools + troughs.

Pd	—— on nest ——						
m ♂	vp	d	2/0	ML	1/1	C_0	O
Pf ♂	pond	sat	1/0	M	6/0	C_1	+

no other species noted.

P. DeBenedictis
1965

TRANSECTS
Barrow, Alaska

7 July TRAP LINE III B, post 0.0 to TRAP LINE III A, post 0.0.
4:45 to 4:48 pm. fairly dry except 1 pond.
Pf♂ tr sat 0/0 M 0/0 C_3 pk.
no other species seen.

13 July TRAP LINE IV B, post 0.0 to post 10.0 ~~3:00~~ 3:10 to 3:14 pm.
soggy soil but no standing water
No birds on or near transect.

TRAP LINE IV B, post 10.0 to post 60.0, TRAP LINE IV A
3:14–3:16 pm
No birds on or near transect

TRAP LINE IV A, post 10.0 to post 0.0. 3:16 to 3:22 pm
ponds in 1st half; wet soil on remainder.

Pf♂	pond	2" deep sw	1/0	B	0/2	C_0	+	flock
"	"	"	"	"	"	"	"	flock
"	"	1" deep sw	"	"	"	"	"	flock
"	"	~~sat~~ "	1/0	"	"	"	"	flock
"	"	sat	2/0	"	"	"	"	flock
"	"	"	"	"	"	"	"	flock
Pf♂	"	1" deep sw	2/0	"	"	"	○	
Pf♂	"	2" deep sw	1/0	"	0/4	"	+	

TRAP LINE IV A, post 0.0 to TRAP LINE IV B, post 0.0
1 pond on transect, rest wet
no birds seen on; Pf near transect.

P. DeBenedictis
1965

TRANSECTS
Barrow, Alaska

13 July — TRAP LINE XI, post 0.0 to post 10.0 — 337-347 pm

along stream; considerably taller grass than 5 July; more in stream + less water in area; no flow in stream.

m♀	st	sat	1/0	B	0/3	C_0	+	loose flock
m♀	"	"	2/0	"	"	"	+	
m♀	"	1" deep sw	1/0	"	"	"	+	
Pf♀	"	1" deep sw	1/0	"	0/2	C_0	+	
m♀	f	sat	4/0	"	0/6	C_0	+	loose group
m♀	f	sat	2/0	"	0/3	C_0	+	
m♀	f	sat	1/0	"	0/2	C_0	+	
m♀	st	1" dee sw	1/0	"	0/2	C_0	+	together
m♀	"	"	"	"	"	"	"	
m♀	"	"	"	"	"	"	"	

TRAP LINE XI, post 10.0 to TRAP LINE XII, post 10.0

~1/3 in stream, rest wet. 347-349

No birds on transect; Pf. seen off transect.

TRAP LINE XII, post 10.0 to ~~TRAP~~ post 0.0. 349 to 354 pm. about last 80 ft in stream, rest wet.

Pf♀	st	1" deep sw	1/0	B	0/4	C_0	O

TRAP LINE XII, post 0.0 to TRAP LINE XI, post 0.0

354-357 pm. ~3/4 in stream.

m♀	st	1" deep sw	1/0	B	0/4	C_0	+
Pf♂	"	sat	4/0	B	0/6	C_0	O

NOTE - Bare surface = mixture of cuttings + much

P. DeBenedictis
1965

TRANSECTS
Barrow, Alaska

13 July — TRAP LINE IIIA, post 0.0 to post 10.0 500 to 505 pm
dry except wet in troughs.
No birds seen on or near transect.

TRAP LINE IV A, post 10.0 to TRAP LINE IVB, post 10.0. 505 to 507 pm. as above
No birds seen on or near transect.

TRAP LINE IVB, post 10.0 to post 0.0. 507 to 514 pm. ponds in ≥1/2 of area, rest wet to dry.
Pf♂ pond 2" deep sw 0/0 B 0/0 C, O
a Calidris, prob. mauri flushed from a raised polygon before seen (1/0 Mt 0/0 C,); prob. not feeding. C. melanotos seen off transect.

TRAP LINE IIIB, post 0.0 to TRAP LINE IIIA, post 0.0. 514 to 516 pm. 1 pond, rest wet to dry
No birds seen on or near transect.

Additionally TRAP LINES V + VI were run by me 2× this day and no shorebirds were seen within 200 feet of either + any of the cross transects.

P. DeBenedictis
1965

TRANSECTS
Barrow, Alaska

14 July TRAP LINE I, post 0.0 to 10.0. 337-342 pm
dry.
No birds seen, bairdii on nest off line
TRAP LINE I, post 10.0 to TRAP LINE II, post 0.0.
342 - 344 pm. dry
No birds
TRAP LINE II, post 10.0 to post 0.0. ~~A few~~ 344 to 350
pm. A few small pools.
♀ pectoral flew over line. No Birds.
TRAP LINE II, post 0.0 to TRAP LINE I, post 0.0.
~~No bi~~ 350-351 pm. No birds.

15 July TRAP LINE III, post 0.0 to post 10.0 - d.m.
dry
TRAP LINE ~~III~~ post 10.0 to TRAP LINE ~~II~~, post 10.0
~930 am.
Pf♂ tr sat % ? % C_3 +

15 July TRAP LINE IX, post 0.0 to post 10.0 944-949 am
No birds
TRAP LINE IX, post 10.0 to post 10, LINE X 949-950 am
No birds
TRAP LINE X, post 10.0 to post 0.0. 950 to 955
No birds
TRAP LINE X, post 0.0 to LINE IX, post 0.0-
955 ~~to~~ 956 am. No birds
no birds seen near lines.

P. DeBenedictis
1965

TRANSECTS
Barrow, Alaska

17 July TRAPLINE III B, post 0.0 to post 10.0 335-339 pm.
fairly dry.
No bird; Pf. flew over line.

TRAPLINE IV B, post 10.0 to TRAPLINE III A, post 10.0.
341-342 pm. dry. No Birds.

TRAPLINE IV A, post 10.0 to post 0.0. 342-349 pm.
pools along 1st half.

m♂	f	sat	3/0	M(B)	0/2	C_2	
Pf♂	Pond	1" deep sw	1/0	B	0/6	C_2	O
m♂	..	1" deep sw	1/0	B	0/6	C_1	
Pf♂	..	8" dep sw	2/0	B	0/12	C_2	
m♀	..	2" deep sw	1/0	B	0/4	C_2	O

TRAPLINE III A, post 0.0 to post 10.0. 349 to 351 pm.
pond on 1st half. No birds

Note - most birds very shy and in alert posture when 1st seen, but probably feeding.

TRAPLINE XI post 0.0 to post 10.0 358 to 408 pm.
along stagnant remnants of NOTH creek.

m♀	st	sat	1/0	B	0/2	C_0	+
m♀	st	1" deep sw	1/0	B	0/3	C_0	+
m♀	st	sat	3/0	B	0/4	C_0	+
m♀	f	sat	4/0	B	0/2	C_0	+
m♂	f^d	sat	1/0	B	0/2	C_0	+
m♀	st	sat or sw	2/0	B	0/3	C_0	+
m♂	f	sat or sw	1/0	B	0/2	C_0	+

these birds all very social, feeding by pecks in Carex in the stream. When I went by all but the last ♂

P. DeBenedictis
1965

TRANSECTS
Barrow, Alaska

17 July TRAP LINE ~~XII~~ XI (cont.)
arose and formed a flock of 17♀ and 2♂ and landed ahead of me in the transect area —
flock 17♀, 2♂ m f sat 4/0 B 0/4 C, O —
Red Phalaropes seen just outside transect.

TRAP LINE XI, post 10.0 to TRAP LINE XII, post 10.0.
408 to 410 pm; part crossing creek.
No birds. Pectorals seen just out side in NOTH creek (2) and in a puddle (1).
TRAP LINE XII, post 10.0 to post 0.0. 411 to 417 pm.
most 00 in NOTH creek.
No birds. Red Phalarope seen just outside area in NOTH creek.
TRAP LINE XII, post 0.0 to LINE XI, post. 0.0 417-419 pm. ~1/2 in NOTH creek.
m♂ st^d 2" deep sw 3/0 B 0/2 Co not seen to feed.

Note - grass in stream has grown considerably, so that there is now little open water - the grass filled pool type habitat preferred. All birds very shy and flushed at long (150± feet) distances.

P. DeBenedictis
1965

TRANSECTS
Barrow Alaska

22 July TRAP LINE IV B 0.0 to 10.0. 319 to 323 pm.
area moist but no standing water
No birds. Golden plover (4S) flew over area.

TRAPLINE IV B, post 10.0 to IV A, post 10.0 325-326 pm.
as above - No birds.

TRAP LINE IV A, post 10.0 to 0.0. 326 to 332 pm.
ponds on 1st half.
PF♂ pond sat 3/0 B 0/2 C0 +
6 Golden plovers seen in grassy, sat. low areas
just outside 0 end of transect.

TRAP LINE IV A, post 0.0 to IV B, post 0.0. 332-333 pm.
large pond in area.
No Birds.

TRAP LINE XI, post 0.0 to 10.0 341 to 355 pm.
~1/8 area in stagnant remain of old creek, rest sat or
pools, grassy, flat. Bottom = mixture sphagnum + cuttings.
m♀ f sat 1/0 B 0/6 C0 + } together
m♀ " " " " " " " }
m♀ f sat 1/0 B 0/4 C0 +
m♀ st >1" sw 2/0 B 0/3 C0 O
m? f sat 3/0 B 0/3 C1 ?
m♂? f sat 3/0 B 0/3 C0 ?
m♂? fd sat 1/0 B 0/1 C0 ? weasel tracks.
m♂ f sat 1/0 B 0/5 C0 + on island in pool

P. DeBenedictis
1965

TRANSECTS
Barrow, Alaska

22 July TRAP LINE XI, post 10.0 to TRAP LINE XII, post 10.0
455 to 458 pm. ~ 1/4 in OOTH creek, rest sat a pools.
m (0.2 ft) f ($2''$ deep) sw 1/0 B 0/2 C_0 ?
two other pectorals flushed from ? OOTH creek before their location could be ascertained while completing the ~~above~~ preceeding transect.

TRAP LINE XII, post 10.0 to 0.0. 358 to 404 pm.
~~sat~~, grassy flat except last 100 ~~yards~~ feet, in OOTH creek.
m♀ f sat 1/0 B 0/4 C_0 + near OOTH creek
Pf♂ st ($1''$ deep) sw 3/0 B 0/6 C_0 +
4 golden plovers landed in sat grassy flat on or just outside 0 end of transect and flushed without feeding.

TRAP LINE XII, post 0.0 to XI, post 0.0. 404 to 406 pm. ~ 1/2 in OOTH creek.
m♂ st ($1''$ deep) sw 1/0 B 0/4 C_0 + } together
m♀ " " " " " " "

TRAP LINE IIIA, post 0.0 to post 10.0 421 to 426 pm.
raised polygons dry, troughs sat. almost no standing H_2O.
1 *Calidris pusillus* flushed from a trough (no standing vegetation, heavy cuttings) and 2 from unknown location by a snowy owl. The latter 2 semipals. may not have been on the line.

P. DeBenedictis
1965

TRANSECTS
Barrow, Alaska

22 July TRAP LINE IIIA, post 10.0 to IIIB, post 10.0. 426 to 449 pm. as preceding transect.
two pairs of dunlin and a lone semipal all acting as if they had young which could not be located despite careful search. All 1st seen scolding from bare, dry, raised polygons and seen feeding in w, grassy troughs ~~??~~ or flats on ~~and~~ off the plot. No guess as to location of young.

TRAP LINE III B, post 10.0 to 0.0. 449 to 456 pm.
ponds ~~out~~ along most of line.
Pf ♂ pd sw 4" deep 0/0 B 0/0 C_3 +
p pd sat 4/0 M 0/2 C_0 + flat on edge of pond.

TRAP LINE IIIB, post 0.0 to TRAP LINE IIIA, post 0.0.
456 to 458 pm. 1 pond on route.
No birds on or near line.

23 July TRAP LINE VII, post 0.0 to 10.0, ~~to post 10~~ 235 to 240 pm.
TRAP LINE VII, post 10.0 to TRAP LINE VIII, post 10.0 240-242 pm
TRAP LINE VIII post 10.0 to 0.0 242-247 pm
TRAP LINE VIII, post 0.0 to TRAP LINE VII, post 0.0. 247-249 pm.
1 *P. fulcarius* flew over VII, no birds seen on ground near any of these. Ground sat. + densely grown to grass.

TRANSECTS
Barrow Alaska

23 July TRAP LINE VI, post 0.0 to 10.0 304 to 308 pm.
TRAP LINE VI post 10.0 to LINE V, post 10.0, 314 to 318 pm.
TRAP LINE V, post 10.0 to 0.0, 318 to 323 pm.
TRAP LINE V post 0.0 to LINE III; post 0.0 323-325 pm

dry except troughs in Holme's Morass, which sat.
No birds, 2 *P. fulcarius* seen flying over the transect in Holmes's Morass.

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1965

June	8 ARL area	9 tundra/Labara	10 ARL area/tundra	11 ARL area/tundra	12 ARL area/tundra
~~Sandpiper sp.~~					
sandpiper sp.	2		/4	/2	
Snow Bunting	song 10	song 4 / song 12	song 10 /3	12 /6	10 / 8
Lapland Longspur	4♂,1♀	song 10♂,6♀	10♂♀ /5	nest mat. 15♂♀ /25♂,12♀	10♂♀ / 35♂♀
Snowy Owl		2N 3♂♀ /	(1N 9E) /1+	/9	/6
Pomarine Jaeger	3	display 50 /4	display /65+	1 /50 display	3 /80±20
Glaucous Gull	8	30 /3	2 /5	2 /20	/25
Fox Sparrow		/1	1	1	
Ruddy Turnstone		/13+	8+ /3	3 /2	/4
white-cr. Sparrow			1		
Semipalmated Sandp.			(display) 2 /♀	9+ /3	1 /20
Dunlin			1 or 2 /9	/4±	/75
Oldsquaw			(flock) 125+ /	sp. (15) / flock 75+	
A. Golden Plover			/1	/3	/4
Pectoral Sandp.			/1		
Sabine's Gull				/1	1 / —
Baird Sandpiper				/1+	
Red Phalarope				/7	/2
Tree Sparrow				/1	/1
King Eider				flock /25	flocks /25+125
Short-eared Owl				/1	
White-rumped Sandp.					/2
White-fr. Goose					/2 or 3
Buff-br. Sandpip.					/1
Oregon Junco					/1
Artic Loon					/1
Bluethroat					
Red-thr. Loon					

P. DeBENEDICT
1965

JUNE	13 ARL area, tundra	14 tundra	15 tundra / ARL area	16 tundra	17 tundra	18 ARL-tundra	19 tundra	20 tundra	21 ARL/tundra	~~Sandpiper sp.~~
										sandpiper sp.
	S 10, S 10	S 10	6/SL 10	8	S 20	15	10	NB 10	10/18	Snow Bunting
	S 25, S 75	S 55	8/S 35	25	STD 70	50	S 70	S 50	20/50	Lapland Longspur
	,5	4N,E 10	N,6E 5	N 7	9	5	6	7	1/6	Snowy Owl
	2, TD 50	TD3F 250	F 40/10	F 115	N/E 25	115	TD,N 80	95	5/70	Pomarine Jaeger
	3,25	50	3/2	20	30	20	20	25	1/20	Glaucous Gull
	1		/1							Fox Sparrow
	,TD? 4	5			TD 6	4	TD? 10	12	1/14	Ruddy Turnstone
										white-cr. Sparrow
	6, TD 8	(TD) 10	TD /4	2	8	8	TD 14	18	4/8	Semipalmated Sandp.
	,TD 50	TD 75	TD TD 6-8/46	20	TD(F) 70	25	25	20	/2	Dunlin
					F 125	F 150	(?F) 2+	34+	/15+	Oldsquaw
	,4	8	2/1	5	8	1	12	18	/4	A. Golden Plover
	,11	5		4	10♂,4♀		6♂	4♂,[illegible]	/3	Pectoral Sandp.
	,1			2			1			Sabine's Gull
	ND 3-4, ND 2+	2	/2+		2	5		2	8/2	Baird Sandpiper
	,2	6					8	15	/20	Red Phalarope
	,1				1					Tree Sparrow
	F 25, F 12									King Eider
	,1						1	2	/2	Short-eared Owl
	??D ,3		/1 or 2		ND 6	2+	6-8	2		White-rumped Sandp.
	,1							1		White-fr. Goose
					1					Buff-br. Sandpip.
										Oregon Junco
			/1				1			Artic Loon
	♀									Bluethroat
	,1									Red-thr. Loon

DeBenedictis, P
1965

June	22 tundra/tundra	23 tundra	24 beach area tundra	25 tundra	26 tundra	27 ~~ARL~~/tundra	28 ARL/Gasline Ridge	29 Voth's + Micromet	
									~~Sandpiper sp.~~
						/13			sandpiper sp.
	10/6	10	8/4	8/10		12/8	10/4	15	Snow Bunting
	30/15	25	20/50	20/30	10	20/35	25/20	50	Lapland Longspur
	6/9	3	1/25	4/6	3	1/10		23	Snowy Owl
	40/100	60	50/150 (5N)	125/50	50	20/55	25/20	50	Pomarine Jaeger
	20/10	25	10/100	100/15	10	10/550	10/5	50	Glaucous Gull
									Fox Sparrow
	6/8	3	1/12	5/5	5	1/4	/2	7	Ruddy Turnstone
									white-cr. Sparrow
	12/4	8	8	5/10	5	8/16	8/2	20	Semipalmated Sandp.
	6/18	9	2/20	20/35	20	2/8	3/8	10	Dunlin
	6/	2	29/25	/4	18	25/100	2	4	Oldsquaw
	6/10	2	2/10	10/16	10	/5	8/3	15	A. Golden Plover
	1/1	3♂	28,[illegible]/10	8/8	2♂, 3♀	/6	11/48	20	Pectoral Sandp.
		1	/4	/1		/1			Sabine's Gull
	4/	8	8	2/4	2	8/2	5/2	8	Baird Sandpiper
	35/25	20	15/50	75/100	100	15/25	35/15	150	Red Phalarope
									Tree Sparrow
	3/				1	/1		30	King Eider
				1					Short-eared Owl
		2	2	/5			1/3	2	White-rumped Sandp.
									White-fr. Goose
									Buff-br. Sandpip.
									Oregon Junco
		1	/1			1/1			Artic Loon
									Bluethroat
							/1	1+	Red-thr. Loon

P. DeBenedictis
1965

JULY	Central Marsh	Micromet Marsh	Central Marsh / micromet Marsh	tundra	VOTH to Footprints	VOTH / Central Marsh	tundra	Micromet Marsh / VOTH	
	June 30	1	2	3	4	5	6	7	~~Sandpiper sp.~~
									sandpiper sp.
	15	8	3/8	10	8	6/2	3	8/4	Snow Bunting
	40	20	10/20	35	45	20/8	25	20/20	Lapland Longspur
	~~55~~ 4	7	3/4	10	20	20/2	43	4/20	Snowy Owl
	55	20	50/20	40	30	30/25	50	25/15	Pomarine Jaeger
	10	10	125/100	30+	40	150/20	20	20/125	Glaucous Gull
									Fox Sparrow
	3	~~1~~	3/3	4	6	4/2	6	/1	Ruddy Turnstone
									White-cr. Sparrow
	25	14	8/16	8	15	8/3	8	35/14+	Semipalmated Sandp.
	10	3	3/	3	8	6/2	20	2/6	Dunlin
	4		4/2	3	4	3/1	18+	10/3	Oldsquaw
	80	8	20/5	14	60	4/60	50+	18/4	A. Golden Plover
	120	15	80/20	8	80	10/80	45+	30/6	Pectoral Sandp.
					2		1		Sabine's Gull
	10	10	/6	2	4		1	6/2	Baird Sandpiper
	200	50	150/25	125	250	100/200	250	50/35	Red Phalarope
									Tree Sparrow
					35	/1	7+		King Eider
									Short-eared Owl
	4			1	6				White-rumped Sandp.
									White-fr. Goose
									Buff-br. Sandpip.
									Oregon Junco
		1	3/		3	1/	3	/5	Artic Loon
									Bluethroat
									Red-thr. Loon

P. DeBenedictis
1965

July	8	9	10	11	12	13	14	15	16	
	UOTH area	UOTH to Footprint	tundra	Ikroavik	tundra	tundra	tundra	tundra	Holmes Morass	
										~~Sandpiper sp.~~
						1				sandpiper sp.
~~12~~	12	8	6	6	7	8	8	~~14~~ 10	6	Snow Bunting
~~20~~	25	15	25	35	20	20	25	20	20	Lapland Longspur
	16	45	25	8+By	20	20	8	4	20	Snowy Owl
	20	60	50	150	35	35	60	35	80	Pomarine Jaeger
	20	25	20	15	10	10	10	15	20	Glaucous Gull
										Fox Sparrow
		3	10	+				1+	2	Ruddy Turnstone
										White-cr. Sparrow
	20	25	15	3	25	15	4	11	1	Semipalmated Sandp.
	15	10	15	30	15	20	20	4	10	Dunlin
	4	10	10	65	125	250	125	10	100	Oldsquaw
	2	6	70	15	25		5	8	2	A. Golden Plover
	20	100	75	100	20	60	10	1	10	Pectoral Sandp.
	·			4	2					Sabine's Gull
	1		1				1			Baird Sandpiper
	50	150	100	150	25	70	100	10	15	Red Phalarope
										Tree Sparrow
	50+				250				400	King Eider
										Short-eared Owl
				1		1	1			White-rumped Sandp.
										White-fr. Goose
										Buff-br. Sandpip.
										Oregon Junco
			3	8	2	1	1		1	Artic Loon
										Bluethroat
	2			3	6		1+		1	Red-thr. Loon

P. DeBenedictis
1965

	VOTH	Micromet Marsh	Gasline Ridge	Holmes Morass	Micromet VOTH	Central Marsh	VOTH	Ikoroavik	
July	17	19	20	21	22	23	24	25	~~Sandpiper sp.~~
									sandpiper sp.
	8	10	10	15	10/6	4	6		Snow Bunting
	15	10	15	15	10/10	10	15	25	Lapland Longspur
	20	8	8	20	4/10	15	6	30	Snowy Owl
	30	20	40	60	15/20	35	30	150	Pomarine Jaeger
	30	35	35	20	5/25	2	40	50	Glaucous Gull
									Fox Sparrow
	2+								Ruddy Turnstone
									white-cr. Sparrow
	6Y 18	8		6	6/7	2	15	3	Semipalmated Sandp.
	2Y 10	6	10	8	/10	1	10	25	Dunlin
	30	100	50	35	/20	3	15	75	Oldsquaw
			+1Y 2	15	/55	25	25	50	A. Golden Plover
	25		1	2	+4Y 1/15	1	2	75	Pectoral Sandp.
								35	Sabine's Gull
						+2Y 5			Baird Sandpiper
	10	4	8	10	/10	8	+4Y 15	50	Red Phalarope
									Tree Sparrow
	350		500	400				2	King Eider
									Short-eared Owl
							3	2	White-rumped Sandp.
									White-fr. Goose
									Buff-br. Sandpip.
									Oregon Junco
								8	Artic Loon
									Bluethroat
				2			2	5	Red-thr. Loon

P. DeBenedicts
1965

	Duck Camp, VOTH	Tundra	VOTH/ocean	Tundra	Central Marsh & South
July	26	27	28	29	30
~~Sandpiper sp.~~					
sandpiper sp.					
Snow Bunting	1/6	8	6	8	6
Lapland Longspur	/15	25	10	30	20
Snowy Owl	/4	6	4	20	10
Pomarine Jaeger	4/15	50	30	150	80
Glaucous Gull	10/15	80	10	20	10
Fox Sparrow					
Ruddy Turnstone					
White-cr. Sparrow					
Semipalmated Sandp.	/8	4			
Dunlin	/2	6	1	+2Y 12	6
Oldsquaw	/18	30	20	75	1
A. Golden Plover	/1	13		50	3
Pectoral Sandp.	/1+				1
Sabine's Gull					
Baird Sandpiper				1	
Red Phalarope	/10	6	6	75	25
Tree Sparrow					
King Eider	200/4	12	1	2000	
Short-eared Owl					
White-rumped Sandp.					+3Y 1
White-fr. Goose					
Buff-br. Sandpip.					
Oregon Junco					
Artic Loon	/2	3		5+	2
Bluethroat					
Red-thr. Loon	3/3+	2		4+	

P. DeBenedictis
1968

June	ARL Area Tundra	tundra	tundra, ARL area	tundra	tundra	tundra	tundra	tundra	ARL tundra	
	13	14	15	16	17	18	19	20	21	~~Common Eider~~
	0, 1									Knot
	0, 75 F									Common Eider
		2								Snow Goose
		10±						22+	/2	Black Brant
	(1)		/1		F 14		2-4	2	/1	Sanderling
							♂♀	8♂♀+	/8♂♀	Steller's Eider
							7♂			Pintail
							1	1		Loon sp.
								1000+	15 'r.	Duck sp.
								1	/1	Long-tailed Jaeger
								2		Black-bellied Plover
								2	/2	L.B. Dowitcher
									1/	Semipalmated Plover
										Western Sandpiper
										Parasitic Jaeger
										Arctic Tern
										Curlew Sandpiper
										Yellow-billed Loon
										Yellow Wagtail
										Hudsonian Godwit
										Redpoll
										W. Swan
										Plover
										Ruf.-neck. Sandpiper
										Peregrine Falcon
										Black-legged Kittiwake
										Thick-billed Murre

P. DeBenedictis
1965

June	22 tundra/tundra	23	24 ~~tundra~~ tundra	25 tundra	26 tundra	27 ARL/tundra	28 ARL/Gasline Ridge	29 VOTH and Micronot Marsh.	
									~~Common Eider~~
									Knot
									Common Eider
									Snow Goose
			/4			/3			Black Brant
									Sanderling
	20/2	1♂,2♀	/1♂♀	5♂♀/10♂♀	2♂♀	/8♂♀	2♂♀	4♂3♀	Steller's Eider
				5♂				12	Pintail
				3+	3	3/2	1 /1	4	Loon sp.
								1r.	Duck sp.
			2 /2	1	1	5/2	2/1	10+	Long-tailed Jaeger
			/1	1 /1			1	1	Black-bellied Plover
			/2	2 /2		1/1+	3	3	L.B. Dowitcher
		1							Semipalmated Plover
	1/	2	[illegible]	1 /1					Western Sandpiper
			2		(4)	2/1	4	2	Parasitic Jaeger
			/1	4 /1	1		1		Arctic Tern
				♂	1				Curlew Sandpiper
				/1					Yellow-billed Loon
						2/		1	Yellow Wagtail
							1		Hudsonian Godwit
							/1		Redpoll
							4	4	W. Swan
									Plover
									Ruf.-neck. Sandpiper
									Peregrine Falcon
									Black-legged Kittiwake
									Thick-billed Murre

P. DeBenedictis
1965

July	June 30 Central Marsh	1 Micromet Marsh	2 Central Marsh/ Micromet Marsh	3 tundra	4 VOTH to footprint	5 VOTH Central Marsh	6 tundra	7 Micromet Marsh, VOTH	
									~~Common Eider~~
									Knot
									Common Eider
									Snow Goose
							1		Black Brant
									Sanderling
	8♂,6♀	2♂,♀	2♂♀/2♂	2♂♀	4♂♀	2♂♀/♂♀	4♂♀	♂♀ / ♂♀	Steller's Eider
	6		6♂			/2♂,♀			Pintail
	1			1	2		2	2	Loon sp.
							150		Duck sp.
	2	2	/2	5	8	/2	4	3 / 3	Long-tailed Jaeger
	1	~~2~~			2	1/4	3		Black-bellied Plover
	80	2	15/	50	160⁺	30/30	25⁺	2 / 35	L.B. Dowitcher
									Semipalmated Plover
	10		10/		60⁺	2/5	5	1	Western Sandpiper
	2	2	2/			/1			Parasitic Jaeger
						/1			Arctic Tern
									Curlew Sandpiper
					1		2	/1	Yellow-billed Loon
									Yellow Wagtail
									Hudsonian Godwit
									Redpoll
					3				W. Swan
	1								Plover
	3		1/						Ruf.-neck. Sandpiper
									Peregrine Falcon
									Black-legged Kittiwake
									Thick-billed Murre

P. De Benedictis
1965

July	8 VOTH area	9 VOTH to Footprint	10 tundra	11 Ikro[illegible]k	12 tundra	13 tundra	14 tundra	15 tundra	16 Holme's Morass	
										~~Common Eider~~
										Knot
					(sp?) (150)	300		14	100	Common Eider
										Snow Goose
			2	5					2	Black Brant
										Sanderling
	♂♀	2♂,3♀	9♂,5♀	11♂,4♀	3♀	13♂,3♀	3♂,5♀,			Steller's Eider
			7	♀						Pintail
			4		12	4	1	1	3	Loon sp.
				♀ Eider 2			Eiders 8		eiders sp. 200	Duck sp.
	5	1	1						2	Long-tailed Jaeger
					1					Black-bellied Plover
		40	1+	4						L.B. Dowitcher
										Semipalmated Plover
		5	2	2	1					Western Sandpiper
	2		2							Parasitic Jaeger
	3+			2					2	Arctic Tern
										Curlew Sandpiper
									5	Yellow-billed Loon
										Yellow Wagtail
										Hudsonian Godwit
										Redpoll
				3						W. Swan
										Plover
										Ruf.-neck. Sandpiper
			1							Peregrine Falcon
										Black-legged Kittiwake
										Thick-billed Murre

P. DeBenedictis
1965

July	17	19	20	21	22	23	24	25	
	~~VOTH~~ VOTH	Micromet Marsh	Gasline Ridge	Holmes Morass	Micromet Marsh VOTH	Central Marsh	VOTH	Ikroavik	~~Common Eider~~
									Knot
				250					Common Eider
									Snow Goose
									Black Brant
									Sanderling
	♀		♀	♀	/♀	♀	♀	35♀	Steller's Eider
									Pintail
		8	10	4	/2		6	6	Loon sp.
	eiders 75	eider 2	eider 800	eider 800	eiders /500			♀eider 1	Duck sp.
		2		25		8			Long-tailed Jaeger
		5				8		2 +4Y	Black-bellied Plover
								3	L.B. Dowitcher
									Semipalmated Plover
								1	Western Sandpiper
				1					Parasitic Jaeger
		4		3				6	Arctic Tern
									Curlew Sandpiper
				1			?		Yellow-billed Loon
									Yellow Wagtail
									Hudsonian Godwit
									Redpoll
									W. Swan
									[illegible] Plover
									Ruf.-neck. Sandpiper
	1			1					Peregrine Falcon
									Black-legged Kittiwake
									Thick-billed Murre

P. DeBenedictis
1965

Species	July 26 Duck Camp	26 VOTH	27	28	29	30
~~Common Eider~~						
Knot						
Common Eider	100		15	125	500	
Snow Goose						
Black Brant						
Sanderling						
Steller's Eider		1♀	3		♀+5y	
Pintail						
Loon sp.	8	3	6	6	8	8
Duck sp.			150	250	eiders ~~2~~3500	
Long-tailed Jaeger			11		2	1
Black-bellied Plover					4	
L.B. Dowitcher						
Semipalmated Plover						
Western Sandpiper						
Parasitic Jaeger	1				1	
Arctic Tern						
Curlew Sandpiper						
Yellow-billed Loon	?		?			
Yellow Wagtail						
Hudsonian Godwit						
Redpoll						
W. Swan						
Plover						
Ruf.-neck. Sandpiper						
Peregrine Falcon						
Black-legged Kittiwake	45		68	8	1	
Thick-billed Murre	(5)		1(+100)	20	8	

P. DeBenedictis
1965

July	26	27	28	29	
		2			Black Guillemot
		1			Herring Gull
				+4y 4♀	Spechtacled Eider

P. De Benedictis
1965-1966

<u>Alaska</u>

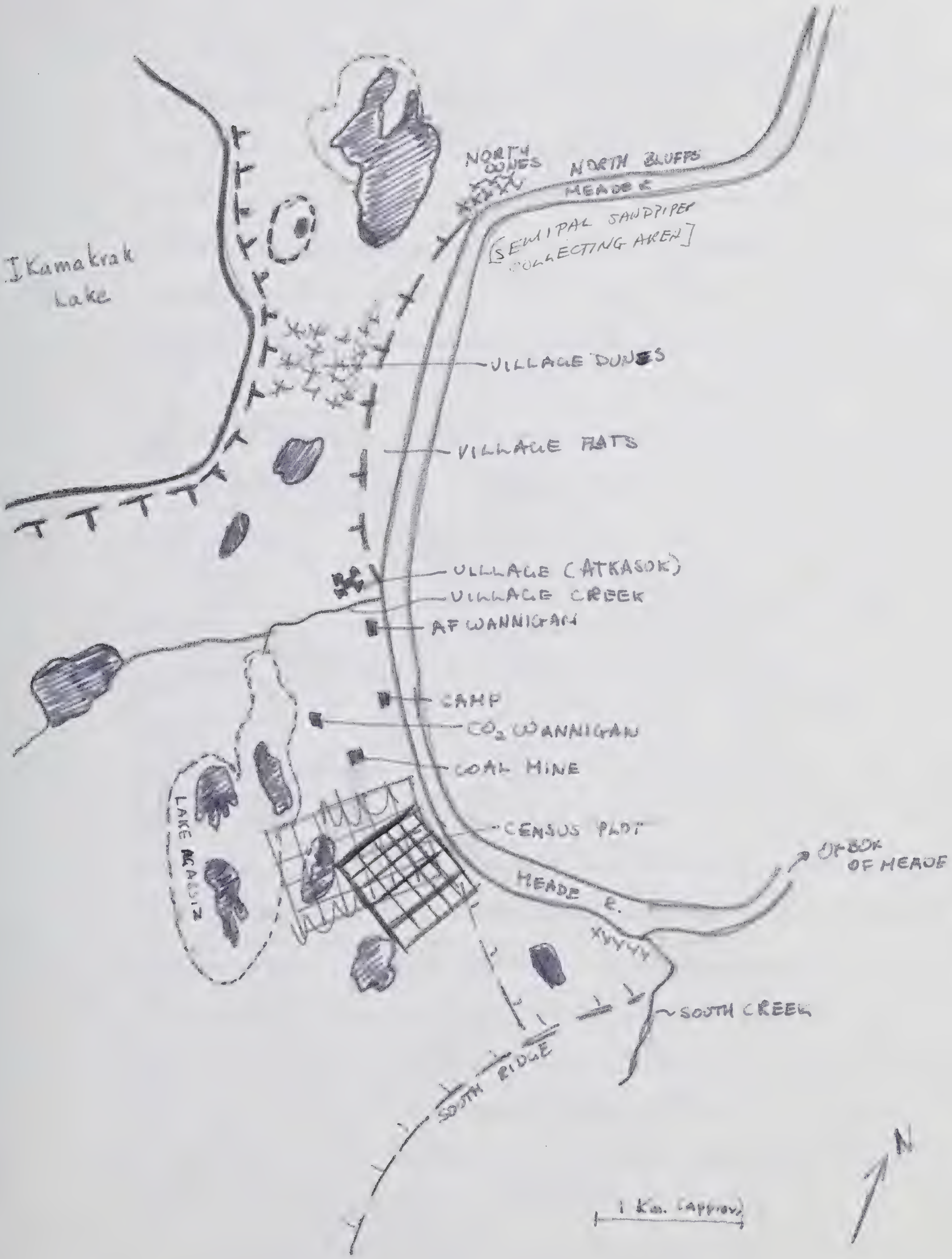
Journal 1966

Daily observational data
Habitat and climate data
Feeding observation and census plots

P. DeBenedictis
1966

MEADE RIVER AREA

[redacted] 1966



P. DeBenedictis
1966

Journal 1

May 12, 13 Berkeley to Barrow.

left Berkeley in the afternoon of May 12 and flew directly to Fairbanks. The flight up was uneventful except for my first helicopter ride and United Airlines left my baggage in Seattle. Fairbanks was cool and down - bright

May 13 early in the am. Its Ann Arbor of early April here - No green plants of any sort. I wander around town for a while listening for birds and found much what I expected, except for the swallows: 3 Lesser Yellowlegs, 1 Buteo (Redtail shape), 100 Violet-green Swallow, 15 Tree Swallow, 10 Cliff Swallow, 1 Steller's Jay, 10 Robins, 1 Horned Lark, 1 Wilson Warbler, 5 Myrtle Warbler, 25 Redpolls, 50 White-cr. Sparrow, 1 Golden-cr. Sparrow, 10 Fox Sparrow, 1 (Spizella), 5 Slate-colored Junco. Spent the afternoon reading & then to the airport. Wien flew the Fairchild up and the flight was mostly over the clouds until the Brooks Range. The Arctic slope is almost 100% snow covered so I don't think there is much going on now. An Eskimo pointed out some black dots he said were caribou. Took a few B+W. pictures. Barrow was sunny and only about 20°; nice. went in to the lab and to bed early. Heard 1 Snow Bunting near Pitelka's lab.

Underlined species are singing.

P. DeBenedictis
1966

Journal - 2

Barrow, Alaska

14 May I am the proud owner of two right shoe-pacs— can't win them all! I saw 3 birds today— 2 Snow Buntings and a Glaucous Gull, and didn't get out of the lab area. Its getting colder. Maude R. camp is being moved out on Monday and I am going Wednesday, I hope, with Phil Johnson. Got some gear together, and ordered stakes. No sense in rushing now. Brewer said 50% more snow than usual this winter and the river may flood. How exciting. No one has seen a lemming. How wonderful!!!. All is going well. Am trying to get a mental picture of the arctic flora— which won't be to hard, I can see. found several Illustrated books. Cooking hasn't changed but the rest of the lab area seems cleaner than last year. Quiet with No one here yet. I can see how the winter here would get to you!

15 May Stayed in camp. Saw 2 Snow Buntings. No much about. The Snow Buntings are singing a little when the sun comes out. Temp. 8°-20°, and amost constant but not strong wind. There really isn't much equipment left from last year, and almost no shells.

DeBenedictis
1966

Journal - 3

16 May

Barrow, Alaska

Finally got a pair of boots and the rest of the equipment I need to begin to function in the field. The gun situation was not good, got a .410 shotgun + 2 boxes of shells, which should hold me until early June the way things are going. One bunting singing in camp today. In the AM took weasel 385 out to Pitelka's census plot paralleling the Beach Ridge. Nothing. The ridge is about 97% snow covered except on Pitelka's plot where it is only 95% covered. The low area are out of the question - I suppose there is 9-10" of snow on Central Marsh. The exposed areas are bare, or moss-lichen covered and with a little grass. In the afternoon went to footprint lake and Gasline Ridge. The areas here is 98% covered, even on the ridge. Saw some (? old) Weasel prints and some large ? dog prints on the snow and found an owl mound which has been used within the last 1+ months, as excreta is on top of the snow here. A few petasites and pedicularis stalks above the snow. Voth Area almost all under snow, to 20" in places, except for oil cans. Coming in saw 16 King Eider (8 pairs), and a flock of about 35-45 Snow Buntings, these feeding along the edge of S Salt Lagoon. Nothing new in camp.

De Benedictis
1966

Journal - 4

17 May Barrow. Alaska. It snowed during the night and much of the open tundra was covered up again. Didn't bother to go out. A few new(?) Snow Buntings in the lab area this evening, singing loudly.

18 May. Went to the north area and to the ridge between this and the village during the A.M. Sunny and pleasant when the wind stops. The ridge here is like the beach ridge, 99% snow-covered and the exposed area mostly bare. No sign of any animals. In the Afternoon went with Pat Clark to Beach Ridge + walked to Pitelka's Census plot. The area is more snow covered than earlier and no signs of animals. Snow Buntings not as noisey around the lab. The roads developed large puddles during the day.

19 May Another clear but deadly day. Didn't go out. large puddles around the lab, which freeze at night. Saw a different Glaucous gull, all white, and a few Buntings around the lab. Nothing New. Meade River Camp is 2/3's of the way there + the tundra 99+% snow covered.

20 May slight Snow during the day. Its beginning to get hard to keep track of the date due to inactivity. Saw 2 Glaucous Gulls together and some Snow Buntings territorial behavior.

DeBenedictis
1966

Journal - 5

21 May Barrow to Meade River Coal Mine, Alaska.
This A.M much like yesterday. No much around the camp except a few Snow Buntings. A good chance I will be able to get out to Meade River this P.M. About Noon I found a flock of c. 100 Thayer's Gulls on the ice opposite the ARL theater and before I had a good chance to look at them we were off to the Meade River. Everything being set up. On the way in the tundra 98 ± 2% snow covered, just the ridge tops exposed. Didn't see any animals at all. When we arrived at Meade River I was told Ptarmigan are all over the place but didn't see any. Saw 2 groups of 12 ± geese flying inland. No small birds around. Spent most of the P.M setting up camp. No sleeping bags were sent in but the rooms are warm and the heat works.

22 May Saw 6 Ptarmigan in camp. after cleaning up I walked towards + beyond the coal mine about 1 3/4 miles along the river, then cut inland to some dunes and headed back. Heavy wind and misty snow. very unpleasant. Saw only One Ptarmigan. Lots of grass tops exposed, but little tundra. I got a dead Wheatear for UMMZ which Frank Kisner found yesterday. It may have been

DeBenedictis
1966

Journal - 6

22 May <u>Meade River Coal Mine</u>, 157°25'W, 70°29'N, Alaska
brought in by a native with the cat train.
There is lots of Ptarmigan dung about and
found one large, (?) fox dropping. No microtines.
No small birds or waterfowl seen. Dull!
About 3 went out to the big Lake NW of camp
and then cut over to the Meade River and
walked back in to camp. The area over here
looks the same as the area I visited about
noon. There were about 15 Ptarmigan near
the air strip on the far side of the creek when
I crossed going out and 2 Eskimos were chasing
about 30 more when I returned. (I suppose they
are all Willows Ptarmigans) There is nothing
else out at all and very little of the land
is exposed, mostly only along the steepest slopes
where there is bare sand. The tops of the ridges
are iced over and only the top of the grass stems
are sticking out. In other words, it remains dull.
Still no signs of microtines. Went to bed about 10.

23 May ~~Got~~ up about 8:30. Weather like yesterday
but the wind has died down a little. No signs
of melt. About 10 AM 3 Snow Geese came over
very slowly but they didn't stay around.
I went out a little in the AM but there
wasn't much out. Ptarmigan in camp and
Ray Shot 4 which I prepared for dinner,
most of the afternoon. During the Afternoon

DeBenedictis
1966

Journal 7

23 May — Meade River Coal Mine, 157°25'W, 70°29'N, Alaska
saw a Arctic Ground Squirrel about 2:30, 4 Glaucous Gulls from about 400 to 500. Ray said he saw 4 small birds near the native village and I heard a ? Longspur (NOTE, prob. Plectrophenax) singing from there about 5. The Ptarmigan were good but tough. The crops were full of green Ericaceous (Ledum) leaves and a few willow buds. The ♂s are farther along in molt than the ♀s, as is evident in the field and are quite a bit larger, with considerable size variation. It will be interesting to get a few more wts, as I am sure I will. I decided to get to bed early and up early tommorrow. Finally had some bedding sent in from Barrow plus a radio.

24 May — About 8:30 I decided to walk to the far Oxbow of the Meade south of camp. It was very windy, a wet wind from the E blowing much snow, but with occ. patches of sunshine coming through. Saw a Snow Bunting in camp + 1 Ptarmigan when I was eating. The trip was uneventful. Heard a Bunting when I left the camp and saw nothing for the next 3 hrs. The bank of the Meade is mostly sand dune and the oxbow area is only partly stabilized. The dunes are grown to low willows and Elymus which is sparse; the sand is clearly windblown.

DeBenedictis
1966

Journal - 8

24 May Meade River Coal Mine, 157°25'W, 70°29'N, Alaska
There was a closed ground squirrel burrow here and some microtine sign (runways only). The stabilized dunes are more heavily grown to plants - and in places the willows are well over two feet in height, and fairly dense. Dryas lvs. are abundant and Ptarmigan footprints and droppings were abundant, although I found no ptarmigan. The central lake and the low-lying parts of the oxbow are almost completely snow-covered, with 12-15" of snow except on the ridges. There is some low willow in these areas, under the snow. On the way in I flushed 15 White-fronted Geese, which flew off N over the native village. Read and slept most of the P.M. Snowing and overcast with heavy wind in the evening. A few Ptarmigan around camp.

25 May Ray shot 9 Ptarmigan during the night and they are scarce about camp than before. He said he saw a Red Fox and a "jaeger" (a white dicky bird) diving at Ptarmigan about 6 A.M. Not much about camp. I've got a runny nose from lack of sleep due to the smelly sleeping bag sent in from ARL. About 10:30 I found a white bird behind the village, which proved to be a Snowy Owl. About ~~14~~ 15 Glaucous gulls assembled there and a few others near camp, flying over. A small ~~copy~~ map

DeBenedictis
1866

Journal 1-9

25 May Meade River Coal Mine, 157°25'W, 70°29'N, Alaska
of Geese flew over after noon and about 6 Day spotted 56±2 Ptarmigan on the far side of the Meade River. These stayed around for most of the evening, as the natives are out after caribou about 25± mi. N of here. Went to bed early. Sure hope some birds will show up so I'll have something to do.

26 May. Stayed in camp. almost no wind and much sunshine but few birds here. Most the Ptarmigan gone (2♀, 3 here). Glaucous Gulls occ. flying by and one small group on lake behind the camp; all are adults as usual here. Helped Phil Johnson move some gas tanks, most of the mid day - saw one Snow Bunting during this period. A Squirrel came out about noon and a small flock of geese appeared in the evening. Another dull day, but lots of ground un-exposed.

27 May There's hope after all. About 8:30 I started off towards the dunes N of the village to see what was about. There were 6-9 Ptarmigan in camp area and more in the flats along the river beyond it, feeding in the low exposed areas as usual. 2 Snow Buntings in camp when I got up. Near the village saw 3 more Buntings, a Ruddy Turnstone and 5 Lapland Longspurs. Farther along towards the dunes there were 3 or 4 Ground Squirrels, a Glaucous Gull, 2 Buntings and at least 9 Longspurs. The Buntings and Longspurs are feeding in the same areas as

P. DeBenedictis
1966

Journal - 10

27 May — Meade River Coal Mine 157°25'W, 70°29'N, Alaska

the Ptarmigan, and the squirrels don't seem to be feeding much at all. Saw two groups of geese, 6 and 8, all White-fronts. This place could get interesting yet. Ptarmigan and 2 Longspurs in camp when I got back about 1PM. In the evening walked SE along the Meade. There were 3 Turnstones here plus a group of 6 Ptarmigan. While I was going a group of 9 Longspurs came by and 5 Glaucous flew over. Later I found a group of 16 sitting out on a flat area. There is now considerable Squirrel sign about, which was not there two days ago, but I didn't see any squirrels. Out from 7:30 to 8:30 only. Cold and windy now but some sun coming.

28 May — In the AM I went SE along the Meade to the creek that comes in at the Oxbow, then in a short ways and walked back to camp. The weather was calm and sunny when I left and soon changed to broken overcast with snow flurries, although it never became cold. There was a Ptarmigan in camp and 60 ± farther down along the river, feeding in the bare Dryas patches as usual, as well as in willow areas. I saw 4 Pipit near the coal Mine and a Redpoll flew over when I was about a mile from camp. There was a largish group (10±) of Longspurs by the creek and with them one Savannah

P. DeBenedictis
1966

Journal - 11

28 May Meade River Coal Mine, 157°25'W, 70°28'N, Alaska

Sparrows. No shorebirds but 2+ gulls and a few White-Fr. Geese flew over. There were two more Savannah Sparrows and a few Longspurs in camp when I returned. At the far end of the dunes here there is considerable Squirrel Activity, and I saw 2 on this side of the river plus 1 or 2 on the far side. No other mammals. The # of Longspur tracks now is much increased even compared with last night. The midafternoon was spent in bed - 1:30 to 3:30 and then I walked N along the Meade to the low area beyond the exposed high sand dunes, 2 miles N of camp. It was nearly calm but snowing lightly when I left and this continued until about a quarter of 5, and it was clear to slightly cloudy when I returned. Bird activity was low. There were a few Longspurs and a Bunting near the village and [illegible] Longspurs on the ridge opposite Ikmakrak Lake. There was a Ptarmigan and 3 Pectoral Sandpipers sleeping in high centered polygons prior to grass and low willow, and a flock of 11-13 Longspurs and 3 Savannah Sparrows in a grassy high polygon just beyond this. I came back through the flat along the river, seeing 2 Longspurs, 6 Ptarmigan and 7 Savannah Sparrows; there were one or 2 squirrels out

P. DeBenedictis
1966

Journal - 12

28 May Meade River Coal Mine, 157°25'W, 70°29'N, Alaska and possibly one Mirotus ... In the evening there was a Fox out in the drained lake W of camp and a few Longspurs flying about.

29 May In the AM, clear and sunny, there was surprisingly little about. A stray dog has been galloping back and forth through camp and howling here and there during the night. One of the generators went out. We traded 5 gal. of gasoline for a goose, but no one wants to cook it. Melt proceeded markedly during the day and now much of the ridge and some of the polygon ridges are exposed. The morning was spent putting up a census plot 5×4 acres (0.8×1 km.) which will be extended a little when it opens up. Saw only a few Geese, Longspurs and Gulls while setting it up. Some Squirrel activity near camp. This occupied the period 10 to noon. About 1, after lunch I spotted a pectoral Sandpiper sitting quietly in a polygon outside the kitchen window and then a flock of about 20 flying over. Another lone bird came by and the 1st went with it to the CO_2 shack, where they rested quietly. A few Longspurs about. Rested 2 to 2:30, then went to the village until about 4:30, when a plane came in from ARL. Saw 5 Turnstones in the village

P. DeBenedictis
1966

Journal - 13

29 May — Meade River Coal Mine, 157°25'W, 70°29'N, Alaska
and a few Buntings and Longspurs feeding along the creek. With these were at least 2 and prob. 3 to 5 Yellow Wagtails, which I finally were able to see on the ground. These gradually moved through camp. In the evening 8:30 to 10 PM went to the creek SE of camp along the Meade to look for Wagtails but found only Ptarmigan, Longspurs, and a Western Sandpiper, which I collected. Spent the rest of the evening writing notes and went to bed.

30 May — Went out N. along the Meade to try and get Wagtails. It was clear and not very windy, with considerable melt going on. Little about until I got to the village stream, where there was a Wagtail and 2 White-cr. Sparrows with the usual Longspurs and Buntings. Gulls and geese flying about in small #s. In 2 Savannah Sparrows, and a Wagtail flew over the camp earlier today. Longspurs are now song-flighting. In the village there were 4 Turnstones. Only Longspurs beyond the village in the tussock grass but in the flats where the stabilized dunes are exposed I found 3 Golden Plover and a Black-bellied, plus 6 others (Golden Plover) and a Pectoral Sandpiper in the dunes beyond here. Saw 3 "peep", prob. Semipals. flying S along the Meade and one Semipal on flying over

P. DeBenedictis
1966

Journal - 14

30 May Meade River Coal Mine, 157°25'W, 70°29'N, Alaska. the dunes. The golden plovers are singing and i thought I heard a snipe and a pectoral song. On the way back a dark-phased Parasitic Jaeger flew directly over me, and I heard a Pipit and a Wagtail flying. A sing. L.B. Dowitcher flew over and 2 others also later came by, going towards camp. The ditch by the village had 3 Golden Plovers and 2 Turnstones by it when I got back, and Semipal. Sandpipers were singing near here. Stuff is really coming in now! Got back in about 1 PM, so sore that I can barely walk now. both feet are blistered. 3 or 4 Dowitcher and 3-4 goldenplovers plus 2 groups of 3-4 peep came through camp in the late afternoon. Heard 2 Wagtails, saw a Parasitic Jaeger, and saw and heard (poorly) a strange Sparrow, probably a Tree Sparrow. In the evening went out from 10 to 11:30 pm, SW along the Meade. I figured out my Census plot is only a quarter the size I thought it was. When I left the Longspurs were feeding actively and singing, although I was jumping some, but after 10:45 everything had gone to sleep. Jumped one sleeping Golden Plover and saw 7-8 birds "migrating" and also jumped 6 Semipal. Sandpipers. Saw a group of 7 Jaegers (? species) flying N and a few geese. Most of the migrants seen after 11. Saw a

P. DeBenedictis
1966

Journal - 15

30 May — Meade River Coal Mine, 157°35'W, 70°29'N, Alas. Wagtail and flushed a Savannah Sparrow on the way in. Wrote notes and then went to bed, foot sore and pooped. I'm told there are now a few eiders and some swans about. I found one spot where a gull or jaeger had been working along the edge of a melt patch (looking for lemmings?) and I also saw a gull eating something on the far side of the River about 7 P.M. I am very impressed how most of the birds here seem to be passing through rather than settling down, to be followed by transients as at Barrow; the exception to this appear to be only Longspurs and possibly Golden Plover though the latter are noisy enough when in flight, now, that I could well be wrong about them.

31 May — Slept late and about 10:30 went to the village creek to try and get a wagtail. Clear, sunny and slight wind again today - great. There are at least 3 Wagtails there, singing away now, and also 1-2 White-crown Sparrows and a Blackpoll, which I collected. Lots of Longspurs. There are at least 4 and probably 6 Turnstones here, and I also saw 6 Golden Plover, 1 Black-bellied Plover, 2+ Dunlin, 4+ Semipal Sandpipers, and heard a Dowitcher. An immature Mew Gull was around, and I saw 2+ Parasitic Jaegers, a Sabine Gull, 7 Pintail

P. DeBenedictis
1966

31 May Meade River Coal Mine, 157°25'W, 70°29'N, Alaska
30 Oldsquaw, 1 Short-eared Owl, and many geese and Glaucous Gulls. I hit the Short-eared Owl but the 9 shot didn't seem to do much to it. The Wagtails act like they will breed locally, and finally heard Semipal. and Dunlin song, out on the snow covered tussock grass. All the shorebirds are feeding in exposed bare patches which are about 1/4 grass cover, 1/2 to 2/3 Dryas - Cassiope - Vaccinium - Cerastium covered area, a layer of damp moss and lichen, with patches of sand. The ground is frozen but there are flies out on the surface now. It's really nice to be out. Ray said he saw Snow Geese. Went out to circle the census plot from 2 to 5 PM and to see what, if anything, was there. Got thoroughly sunburned. A Pectoral Sandpiper came through camp about 1 PM and Yellow Wagtails were making noise here and there. There were 2 Dunlin, 2 Plovers, and a Turnstone near the closest stake and other plovers occasionally came by. At least 2 Parasitic Jaegers were about and I saw Semipal. Sandpipers and Dowitchers flying about. Not a lot of Longspur activity. About 4:30 a flock of 250±50 Black Brant flew over and a little later 5 Snow Geese with two White-fronts went by. One pintail circling about and a White-crowned Sparrow has worked its way down here. Not much shorebird song

P. DeBenedictis
1966

Journal - 17

31 May — Meade River Coal Mine, 157°25'W, 70°29'N, Alaska. except from the Plovers and the Ptarmigan were fairly quiet. As this A.M. heard Redpolls but didn't see any. The shorebirds seem to be feeding anywhere they can, and primarily in the rather grass poor higher polygons with good lichen cover. The ground is still solidly frozen so all feeding must be on the surface. It got quite warm today, well over 40 and would have been much more if not for the snow. The Meade R. is getting quite damp in places. Went down to the village creek for a while - 8 to 10 PM - to try for wagtails but again no luck. A dull bird (?♀) was in camp and just barely out of range all the time and a ♂ flew about my head for two minutes without landing. There were two White-crowned Sparrows together and a Robin here, but no change in the shorebirds, except in a decline. A ♀ Red Phalarope flew over calling and a few peep and golden plover were flying about in small groups. Cold and for the most part quiet. Again tonight most of the birds turned off about 10:30 PM. Not a lot moving about.

1 June. An attempt to get up early was a gross failure - I didn't come close. It's windy today from the east and large patches of ~~the~~ snow obscure the blue sky, but the ground is not being covered up. Very quiet, the Longspurs hugging the ground. I went toward the village creek from 10 to 12 AM. It's unpleasant to

P. DeBenedictis
1966

Journal - 18

1 June Meade River Coal Mine, 157°25'W, 70°29'N, Alaska
be out because of my high degree of sunburn. Nothing odd around the creek for a change - a few longspurs, and a nice Long-tailed Jaeger. The gulls are perched today, but shy. Saw one eating something. There are small flocks of dunlin around and more Black-bellied Plover and turnstones than previously. Saw one Pectoral (twice?) and 1 or two Semipal. Sandpipers, which didn't seem to be staying around. Little shorebird song. One Savannah Sparrow by the generator shack. I am tired now! Stayed in camp the rest of the day. Found a Ptarmigan kill being worked by Glaucous Gulls and Parasitic Jaegers in the afternoon. Little moving about and all quiet. Weather remained poor until about 10 PM, when it suddenly cleared up.

2 June Got up at 6:30 and was out by 7. It wasn't worth the effort. There was very little song all day, and few shorebirds about. The local golden plovers were gone, and there were only one or two at the creek, with turnstones and 4-5 dunlin. One or 2 Semipal. Sandpipers near the village and several dunlin singing over the flat along the river near there. Dowitchers are much more numerous now than earlier, and often vocal when they fly. Finally began to hear Pectoral song, but the ♂♂ are still flocked up. The dune area was barren of birds when

P. S. Benedict, 1966

Journal - 19

2 June Meade River Coal Mine, 157°25'W, 70°28'N, Alaska
I went out, but lots of longspurs there. A pair of Wagtails were here. The inland tundra still well snow covered but that along the river becoming increasingly open. At the dunes (~~[illegible]~~ [illegible]) there were 25? Turnstones, and a few Dunlins and 1-2 Semipals. Saw a few Dowitchers and ♂ Pectorals in the polygonal area, and at least one ♀ Pectoral flew over. There are two pairs each of Goldens & Black-bellied Plovers here, ~~both~~ displaying a little but often feeding together. There were two White-cr. Sparrows along the creek and 1 or 2 here, plus singing Savannah Sparrows in the exposed flats near the village and beyond the dunes. Two Baird's Sandpipers came by, one singing, and also saw a pair of Swans at the dune area. Walked back through the flat along the river, flushing 3-4 Pectorals and 8-10 Dunlins and a Semipal. Sandpiper. There was a Tree Sparrow and a Western Sandpiper at the mouth of the creek. Local Plover flock when I returned. The ~~mornings~~ observations give me the impression that birds are beginning to move into more preferred - grassy areas - now that they are becoming exposed. No signs of major influxes of shorebirds, yet, just ~~[illegible]~~ pairs and ends coming in. The ground is frozen so that probing type shorebirds must feed close to the surface, and

F. DeBenedictis
1966

Journal - 20

2 June
Meade River Coal Mine, 157°25'W, 70°29'N, Alaska
since the moss is thawed, these species prefer mossy areas for feeding. I have the impression now that grass let. makes little difference so long as birds can get to the moss below + still have a good view overhead. Spent the afternoon preparing skeletons of the birds I have obtained earlier and skinning the blackpoll - this from c. 2 to 5 P.M. Saw a few plover and pectoral through camp during this period, and a Peregrine falcon nearly hit my head while I was cleaning a Ptarmigan - it was chasing "peep". The period before dinner, I spent along the village creek trying to connect with a flock of dunlin. I got a pectoral which was feeding actively and saw 3 Redpolls on the ground, but the gun misfired (otherwise I should have had all of them). They are not impressively white like the birds at Fairbanks; one was red, but one had a very pale rump. When I came back a wagtail flew by and I squeaked and it landed near me. I fired as it took off and hit the little bastard in the wing - got one at last!! - a pre-breeding ♀. Spent a while trying for the male without being able to get off a shot. Saw a few dunlin and pectorals, 2 Semipals and at least 8 Turnstones near the village. After dinner skeletonized the Wagtail and went to finish (almost) the census

2 June Meade River Coal Mine, 157°25'W, 70°28'N, Alaska
One row of stakes to go! On the way over I saw 2 ♂♀ pintail and a ♂ [illegible] on the plot, and 2 Long-tail Jaegers together. Still a White-crowned sparrow here and there was 3-4 ♂ pectorals and 2-3 dunlin and a Semipal in the area about 8:30. About 10:30 there were 6 dunlin and 2♀ pectorals, and 2 dark Parasitic Jaegers, a Sabine Gull, and 2♀ Red Phalaropes flew over. Birds not to active. Only 2 plovers here, but saw Black-belly in flight and several displaying over the dunes on the oxbow of the Meade. Still clear and clear, as all day, but cool at night. Wrote notes and went to bed about 2400, shortly before saw a flock of 25+ eiders (?, ♀) and 6-8 shorebirds going east with them. Later a lone plover went over and 2 Sabine Gull went the other way.

3 June Slept until 10 and went to the creek and the flats below the village from 11 to 1 today. It was clear until the morning, but then became foggy and windy for most of the day. Cool. Not much flying about but some birds came in. There were few birds along the creek - 2 dunlin, 2 plovers and a pectoral, but there were several dunlin and turnstones by the village. A Slate-colored Junco along the creek. The wagtail is already remated. The birds around the village are feeding

P. De Benedictis
1966

Journal - 22

3 June Meade River Coal Mine, 157°25'W, 70°24'N, Alaska in the disturbed areas where the dogs have been kept, and in the mossy polygon ridges which are becoming exposed. A long-tail Jaeger here, and the local parasitics were about. The flats were very good - two+ pairs of dowitchers, 3-4 pectoral (including two in a fight) and several dunlin and semipals; the pectorals and dowitchers feed in the polygon pools, which have broken ice bottoms alternating with mud, and the semipals and dunlin and golden plover feed on high polygons and along the ridges. Saw one and heard 1-2 Arctic Terns and a ♀ Northern Phalarope flew over. Only the dunlin were making much noise. They, dowitchers, turnstones, and semipal. sandpipers all appear to be paired. A few Savannah Sparrow singing and more longspur noise than yesterday. Saw both wagtails well after I came out of wetlands and one White-cr. Sparrow between AF Wannigan and camp. One dunlin in camp. Several pintail in the flats near the village. Stayed in camp during the afternoon and slept a little. Went out towards the creek S of camp from 8 to 11 PM, putting flags on some of the stakes of the "census plot." There was little about, and the fog still present - visibility only 1/4 mile and poor at 100 meters. There was little active. Dunlin were scattered over the area, including a group of 5 birds, some of which may have been

P. D. Benedict
1966

Journal - 23

3 June — Meade River Coal Mine, 155°35'W, 70°29'N, Alaska
local. They were primarily in high center polygons and on the polygon ridges, and where the ground was fairly open. Saw a few pectorals but most of them were sleeping and there were 2 ♂♀ Semipal Sandpip. near the creek. Saw one feeding on a sparse gravel bar in the Meade R. Two G. plovers flew over and heard Black bellies. Two Parasitic Jaeg., probably the local pair, in the area, plus at least 1 Long-tail. No cold landpipits. Only one Wagtail seems to be here. Longspurs singing a little until 10. Many act like they are paired but loose aggregations of 10+ still are here. No long fights as at camp and by the village. I don't think this area is really exposed enough yet to publish full quota of birds, or else population happens to be fairly low locally. Hard to tell what particular species are doing because so few are about. At least 2 ♂♀ Ptarmigan and saw sexual chasing. The willows are essentially clean of buds, prob from Ptarmigan grazing.

4 June. Got up about 10. The fog cleared up a little earlier. Went to the village to see what was about and to get a few observations. There was a Rusty Blackbird just N of camp, which stayed here most of the A.M. There is lots of Wagtail activity along the creek and at least two pairs are present. Considerable song all A.M. and I flushed a bird with Nesting material

P. DeBenedictis
1966

4 June <u>Meade River Coal Mine, 157°25'W, 70°28'N, Alaska</u>
when I arrived at the AF Wannigan. There was an Arctic Tern along the river. Few birds along the lower part of the creek but 2 pair golden plover, 2 pectoral sandpipers and 1 ~~pair~~ dunlin and a couple of semipalms. There was a strange song coming from W of the village which turned out to be Western Sandpiper, and the junco was still along the creek. There were semipals, dunlin and pectorals in the cover marsh behind the village and Turnstone in the village. Pintail active on the village flats plus a few pectorals, dunlin and semipal. The dunlin were mostly up in the marshes, the pectorals in the marshes and wet polygon tundra and the semipal. in disturbed areas. A Redpoll came into camp and there were two White-crowns and a Fox Sparrow there. Northern and Red Phalaropes both flying about and possibly 2 Reds are now in the area. A couple of Sabine's Gulls came through camp ~~and~~ about noon. Slept most of the Afternoon and prior so I could stay up all night. About 11 P.M. got up and sat around until midnight,

5 June when I started out for the "census" plot. A White-crowned Sparrow was singing by the coal mine and continued singing until 1 AM off and on, and another sang from 2 miles down on the far side of the river. A little songspar activity but most are asleep and most of the shorebirds I saw were sleeping or apparently so until about a quarter of 2. A group of geese flew over. Very little activity. About 2 PM everything ~~made~~ woke up

P. DeBenedictis
1962

5 June — Meade River Coal Mine. 157°25'W, 70°29'N, Alaska

It was lovely!! A ground fog came up about midnight and as the sun was at its lowest there was a 4 ring solar halo and 4 sun dogs the opposite way. The generator quit so you could hear what was going on! The Ptarmigan started off first, then a little gull noise and dunlin, semipals, and pectoral started off more or less simultaneously and kept up for about 1½ hrs. Longspurs active but not singing a lot after 2, and the white-crowns going off and on. A snow bunting singing from the mine shaft was very audible. A group of 10 Oldsquaw came over going east and several pairs and a group of 40's were seen later. Sabine gulls started flying over in small groups from 4 PM on and 1 Yellow-billed Loon and a pair of Scaup went over. A redpoll went by several times and once landed quite close to me. I worked at the census plot until about 2 and then walked along the south ridge until about 3. The ridge was good walking and very interesting botanically but poor for birds. Black-bellied plover sang overhead and a few Semipals were about. There was little evidence of any thing except ~~[illegible]~~ dunlins in the wet stuff off the ridge. Lots of longspurs. I went back to the census plot about 3 and checked it until 5. Phalaropes of both species going over and one small group of pectoral on the ground. Not much golden plover activity. Little doing on the census plot, which has finally

P. DeBenedictis
1966

Journal - 25

5 June

Meade River Coal Mine, 157°25'W, 70°29'N. Alaska stabilized at 320 × 400 meters (30.5± acres), but which may go to 700 × 400 meters if I feel like it. There are only 3-4 ♂ longspurs, a ♂ pectoral, a ♀ Ptarmigan, and 2+ pairs of Semipals, a pair of dunlin are partly on the plot. Came in about 6 and ate something, then went to the village to see what was here. A Myrtle warbler was feeding along the edge of the cliff and the usual shorebirds in the areas where they have been in the past. 4 Long-Tail Jaeger were tracking the local Pomarines and 2 long-tails were cleaning the meat off a Ptarmigan bird that has been here several days. Not a lot of shorebird noise. A white-crowned Sparrow, Redpoll, and a ♀ Slate-colored Junco in camp, and several jaegers coming over going east from 8 to 9 AM, including 4 Pomarines. Aleutian Sandpiper in the village was not singing and one group of ♂? King Eider went over about 9, as well as another loon. At noon gulls congregating on the river and pintail around the camp area in pools. Wagtails all over the place. Activity was very low 11 to 3, then mostly song and chasing for the next 2½ hrs. feeding became obvious only by 5 AM, when it had become quite bright and the fog was gone. Evident much influx of jaegers phalaropes and pectorals during the day, but they are far from common. Thought I saw a second species of warbler in camp but never got a good

5 June. *Meade River Coal Mine, 151°25'W, 70°29'N, Alaska* look at it. A few more Pomarine Jaegers came through camp during the afternoon. About 5 I went out in back of camp for a while, and watched shorebirds for a while - there was a pair of westerns, the male of which sang from the ground - behind the lab feeding along the edge of a pool, and phalaropes started feeding there. Semipals now moving into these areas. Went into the village to trap for wagtails in the evening, without success. Only a White-crown in the area, but several ♂ Old squaw flew over + ♂ Spectacled Eider. A pair of Western Sandpipers here, the ♂ singing, W of the village. Dowitchers again conspicuous and noisy. More dunlin and pectorals, now many ♀s, are present, and the few phalaropes are in coming in #s. Several Pintail ~~pintail~~ behind camp now and saw a ♀ N. Phalarope here ~~[illegible]~~. Quit about 11 PM and went to bed. Running out of paper.!

6 June. Raining the A.M. Cloudy-overcast and very windy the P.M. Went to the village about [illegible] to try for wagtails but no luck. There was little new camp - a new pair of dunlin in - and along the creek about as usual, except almost no wagtail activity. The only dicky bird was a singing White-cr. Sparrow in the village. There were 13± L-T. Jaegers in the village eating garbage plus gulls and the usual parasitics. Shot a longtail but didn't get it. Only 2 ♀ Turnstones now and more Pectorals than ever. ♀s really conspicuous.

P. DeBenedictis
1966

Journal-27

6 June — Meade River Coal Mine. 157°25'W, 70°29'N, Alaska

There was a ♂ Western Sandpiper feeding with the semipals in the dirt road through the village. Shot two and my hunt bit the dust; another male singing (The birds behind camp seen later). A few oldsquaw going over. The river is very wet now and a large group of glaucous gulls congregated here and small groups of Sabine Gulls going over most of the A.M., plus a few Terns. I stayed out to about 11:30, then thawed some birds out and spent the afternoon putting them up. A few jaegers in the evening, but nothing exciting. Foggy and very windy. Semipal and West. Sandpipers feeding along the edge of the melt pools behind camp all day long, and a few phalaropes are down on the ground now. Longspurs understandably quiet today. As of 3 days ago, dowitchers are some time from nesting.

June 7 — More crummy weather. Got up late and didn't get out until the afternoon. Went behind camp, to Ikmalnak Lake, the village edge + flats and back to camp. Out about 4 hrs from 2 P.M. It remained very windy and snow-hailed much of the late afternoon and evening. The wind was blowing so hard that the birds got down in the high grass and I couldn't see what they were doing. Birds are rather concentrated locally, except Longspurs. Near camp saw plovers, dunlin, pectorals and semipals (Flushed) a pair of Spectacled Eiders. There is little on the far side of the lake basin and only a few birds are moving into the lake basin as it opens up.

P. DeBenedictis
1966

Journal - 28

June 7 Meade River Coal Mine, 157°25'W, 70°29'N, Alaska.
Saw pectoral and ♂ of Dowitcher here. There was nothing on the Camp-pond area except longspurs. Along the shore of Ikroavik Lake ground is nearly flat and dry, clear of snow. Here dunlin were setting up territories and a few pectorals and semipalms were feeding or roosting. a ♂ Black-belly plover, and a few pintail in a marshy area. A few dunlin and semipalms on the village ridge, and plover scattered. Where the taller wet grass has encroached on the ridge, a few pectorals were present. Most appeared to be resting out of the wind. The village flats not much changed from earlier. Not a lot of activity - dowitcher, dunlin, pectorals + semipalms conspicuous and 1 or 2 Westerns. No landbirds near the village, but gulls, jaegers feeding there. More terns than there on the last two days. Only pectorals and semipalms really actively displaying and still no sign of longspur nesting. The river has become very wet, with congregations of gulls locally and Semipalmated Sandpipers and Terns and Sabine Gulls working along the edge. About 6:25 the ice went out but jammed up below the village. It stuck with muddy water overflowing the ice + chunks ice from upstream overriding and crushing the river ice. Water forms pools along the shore. When enough ice is there, the river ice breaks and the whole business comes up. The river rose about 15 feet behind the jam.

P. DeBenedictis
1960

Journal - 29

8 June Meade River Coal Mine, 157°25'W, 70°24'N, Alaska

Got up late. A Wien plane taking people into the village missed out morning - we are mail happy! In the afternoon went out by the census plot but didn't really accomplish much. Something is getting to me! Don't feel like doing anything - Must be the slow season. Anyway, the ♀ ptarmigan are finishing the molt and are very inconspicuous now. Ptarmigan kills are wide spread. In the afternoon little activity of any sort - wind and a broken prevalent overcast. Few shorebirds evident - mostly dunlin and semipals - a few pectorals. Only 1 ♂ golden plover seen, beyond the census plot and also a ♂ Black-belly. Longspurs quiet. An Arctic and a Yellow-billed loon flew over and there was an Arctic and a ♂ Red-throat in the river upstream of the ice flows, with a ♂ King Eider and ♂ Oldsquaw. Small group of the latter seen in flight. Coming in, flushing a dunlin that almost certainly came off a nest, about 5, tried. After dinner, I noticed a strange bird out the window, which appeared to be a Bar-tailed godwit. It flew off to the village and disappeared. I tried after it to the far end of the village flats and back behind the village without luck. At least I know what's back there. Near the village the snow is covered with springtails (collembolans) which are being eaten by longspurs and Semipalmated

P. DeBenedictis
#766

8 June <u>Meade River Coal Mine, 157°25'W 70°28'N, Alaska</u>

Sandpipers. There must have been 10-15 of the latter running on the snow (7 in sight at one time). Dowitchers and a few pectorals feeding in the Carex pools, and a few dunlin in the well higher polygonized areas. Red Phalaropes in the pools. All birds except Semipals scarce. In the pool (lake) on the Meade below the ice dam there was a loon (sp?) and 10± Arctic Terns + 5± Sabine's Gulls were about. At least 5 Parasitic Jaegers and 6-8 Long-tails seen, and 1 Pomarine (a pair at dinnertime). Geese now walking on the tundra. On the ridge saw a few dunlin and semipals, and heard a Western Singing. Two turnstones here. Near the village a few jaegers and Semipals galore. Dunlin more numerous here than elsewhere, and a few dowitchers. Saw a ♀ Western Sandpiper. In this area dunlin seem to be in the dryer, more exposed tundra (ridges, flats) and the pectorals more in the Carex pools. Came back through camp but not much here. Ray shot a L-tail Jaeger for me. The River is ice free below the next bend as far as I can tell. Saw longspurs (♂) carrying nest material and ♂ chasing a ♀ who did not respond, and a little ♂♂ fighting. An occasional ♀ acts like it has come off a nest but I can't find any. Ptarmigan kills in this area also.

P. DeBenedictis
1961

Journal - 31

9 June **Meade River Coal Mine. 157°25'W, 70°29'N. Alaska**
got up early but spent part of the A.M. writing notes
the attempt to clear up last night failed and the
wind is still fairly strong. Finally got out about
10 and went back of the village to try for feeding
observations. Little along the lake by the Co's Dauvi-
gnon and along the creek - dunlin and Golden
Plover only. One Western singing here, Semipals near the village plus a
few dowitchers. Walked about 2/3's the length
of the Village ridge. In the exposed areas only
Semipal Sandpipers were the only species there
but dunlin and 8 pectorals in the wet stuff
where there is tall *Elymus*. When its windy the
pectorals get down in the tall grass and I can't
see them until I step on them. When expected
most birds are paired and don't seem to be nesting
yet. Lots of dunlin display and a little song near
the village. On the village flats Arctic Terns were hovering
over the pools and dowitchers were numerous.
1 ♀ each Golden + Black-belly plover, and a few
Semipals and dunlin. Pectorals towards the village
but not N of there. In the pool on the Meade River
8 old squaws, 2 Red-thr. loons, and glaucous gull
and Arctic Terns. Jaegers widespread overhead.
Savannah sparrows on the flats in grassy areas
and Longspurs widespread and fairly noisy.
A few birds flying about. Red phalaropes much commoner
now and 3-10's definitely seen. 27 Northern also.

P. DeBenedictis
1966

Journal - 32

9 June Meade River Coal Mine. 157°25'W, 70°29'N. Alaska both phalaropes in the pond. The earlier impressions about dunlins in the upland, pectorals + dowitchers in the marshes, and semipalmated + sandpipers in disturbed areas still seem to hold, but the latter have quit eating springtails (? all gone, ? time of day). In the evening went out to the census plot. It was clear with occ. fog patches, but windy and everything was quiet. Don't think I have all the longspurs. Few jaegers and shorebirds on the ground. About 8 a migration started that lasted about 1½ hrs, primarily Red Phalaropes and oldsquaws. Groups of 1 to 8 of the former and 2 to 6 of the latter were going south over the area regularly and several small groups of Sabine's Gulls and Arctic Terns went over; plus 3 ♂ Spectacled Eiders. Mixed with the phalaropes were a few Northern Phalaropes, pectoral sandpipers (which occ. landed or hooted) and at least 1 Golden Plover and one dunlin. Considerable lemming activity S of the census plot. On the way in I jumped a ♀ longspur that certainly has a nest but I couldn't find it. Out 7 to 10:30 P.M.

10 June Slept late. In the morning went out to the village to check for dickey birds but nothing unusual there. Most of the jaegers have left and there were 5 Sabine Gulls behind the village with 3 Long-tails, which I watched for a while. Saw a little aggressive behavior. Probably 2 ♂'s of Wagtails here.

P. DeBenedictis, 1966

10 June. Meade River Coal Mine, 157°25'W, 70°29'N. Alaska.

In the afternoon I went to check for shorebirds and some willow areas S of camp. Few shorebirds there. a ♂ Turnstone on the census plot. flushed a BANDED ♀ Wagtail carrying ptarmigan feathers - I'll have to get her! Few shorebirds here but now Red Phalaropes beginning to appear on the pools. Lots of Eiders going by, most spectacled, and Oldsquaw in the river. Loons everywhere. Only Red-thr. Check. The River was dammed above us, and it went out breaking one of the lower dams - now solid ice out in front! Few shorebirds - a couple ♂s Golden plover in the high areas and a few dunlin, pectoral and Semipals in the low areas. After I got back I was taking pictures and jumped a ♀ Longspur with grass in the bill. Later saw another the same way. Then the local Wagtail acted up and found an unlined nest 15-20 yds from the kitchen, which will be easy to watch. Cleared up and almost pleasant much of the P.M. from the look of the air strip I will be here for some time yet. Went out from 9 to 11: to try and get the wagtail. No success. Clear and calm, but little bird activity. Probably 3 ♂s of wagtails to the South creek area. Essentially no migratory shore birds and the river, now 20' above the winter level is ice covered. Oldsquaw and 4 Red-thr. Loons on clear water in south creek and a little

P. DeBenedictis
1966

10 June Meade River Coal Mine, 157°25'W, 70°29'N, Alaska
loon calling from the area to the south. A couple of pectorals and several phalarope the only shorebirds noted, plus a golden plover. 6 (3 ♂♀) Steller's Eiders flew by about 10:30. dull day on the whole.

11 June Went out to shoot 1♀ of the cottage but the creek went and I can't get across now! Went S along south ridge and in the lake basin instead, but it was a waste of time. I went along the river to South creek, then along the ridge two miles, and back to the river more or less directly. Total birds seen — 1♂♀ golden, 1♂♀ Black-belly Plover (ridge). 3(3)♂♀ dunlin (near census plot); 4♂♀ Semipal (census plot - 2, lake bottom S of South Ridge, 2); 15 Pectoral Sandpiper — mostly lake bottom - lots male chasing; 10 N. Phalarope, 50 Red Phalarope. One West. Sandpiper in flight, singing. Longspurs are common - got only a dunlin but shot at a ♀ pectoral and a Black belly Plover — saw only 3-4 shorebirds feeding except the phalaropes. Really slow. Found a longspur nest. The wagtail has done much to the nest; ? abandoned, but she is still around. Saw some ? pre cop. behavior. Lots of color variation in both sexes of this species. No greening up yet to any extent. Phil found plant cropping near the river. Stayed in the afternoon skinning the dunlin and cuiled this evening. Put up another dunlin and salvaged the birds I shot earlier. Three birds only 5-7 days from breeding.

P. DeBenedictis
1964

12 June Meade River Coal Mine, 157°25'W, 70°29'N, Alaska.
Spent the A.M writing notes. In the afternoon I went to look at the area W of camp but was not, as I suspected, very successful finding anything. A pair of dunlin by the next lake up V.Hage creek and 2 Arctic and a Yellow-billed loon on the lake with 3 ♀ Oldsquaw. A couple of ♂ Pectoral and a ♀ of Golden Plovers and Semipals in the area. Red Phalaropes on many of the small Ponds. In the large lake Basin Glaucous gulls act like they may nest on the islands and A pair of Arctic Terns were resting on a sphagnum hump. A couple of Semipal sandpiper ♂'s here and 1 Western, 2 ♂ Pectorals. Both Red + Northern Phalarope in ≃ #5. Oldsquaw and Pintail Both present. Found a Ptarmigan nest c̄. 2 eggs under a willow. The Wagtail has an egg now and Ray said he found a 1-egg Parasitic Jaeger nest near my census plot. Things are going. Still see Semipals in Pairs so I suspect nesting really hasn't started but lone dunlins now not unusual. Saw 4 Westerns in camp. Few Jaegers but L. Tail acting like they will nest. About 7 P.M a Warbler came through camp but it proved to be an orange-cr., not arctic. No eiders today. and little evidence bird movement. In the evening went out to the census plot and had fairly good luck.

P. DeBenedictis
1966

Journal - 36

12 June Meade River Coal Mine, 157°25'W, 70°28'N, Alaska
for a change - the longspur co-operated fairly well and sang. Pretty well figured out what was going on until a extra ♂ showed up with nest material. Saw few to this time. 4 ♂s of Semipals in the area, prob. 2 ♂s of Dunlin and pretty of 2 ♂s of golden plovers. The natives shot the ♂ Ptarmigan off the plot. Lots of Semipal song and saw one fight. No evidence of nesting. and probably few really settled yet. A few loons going over but no migration. Wagtails carrying Ptarmigan feather by the coal mine and saw a ? White-cr. or Savannah Sparrow with the same. Saw a White crane here for sure. Ptarmigan are going to be hard to get here now. damn! The big lake W of the Co. Wannigan now called Lake Aggassiz.

13 June got up early and was off by 8:30 for a change. A nice day and the snow is essentially gone. I tried for collecting without complete success. I crossed village creek at an ice bridge at the mouth and worked N rapidly to the far side of the village dunes. A couple of Semipals on the dunes, and the usual assortment plus a ♀ Western at the village. No land birds. A ♀ golden and Black belly plover at the far end of the dunes; some Semipal and Dowitcher display and dunlin singing a little from the shore of Ikroavik Lake. From the dunes I cut inland through the small pond, *Eriophorum* tussock area, where the birds were about a half hour apart.

13 June Meade River Coal Mine, 157°25'W, 70°29'N, Alaska
Only Pectorals were conspicuous but heard one pair of dunlin and saw several Semipals along a legith lake in Carex marsh. A few dowitchers but little song. Sabine Gulls and Arctic Terns acting up along the sphagnum hummocks in the lakes now opening up, probably to nest, and A ⚥ Red-br. Merganser were here. 2 ⚥ Parasitic Jaegers ? territorial and Long-tails going over. Walked back along the River bluffs but only a few Semipals, mostly flying over. A White-cr. singing from the far side of the Meade in the willows. The village flats full of Semipals and a few Phalaropes, Pectorals and dowitchers as usual. Only Reds seen on this jaunt. While I was in the flats area, a plane that was supposed to ~~[illegible]~~ pick me up came by and left before I ambled back. It left a few stakes which I took to the census plot to more conspicuously mark the grid. A Western Sandpiper Singing over the B row (5-4), but little other change. All nests with one more egg. Spent the evening putting up birds. With the warm weather now, all birds are very inactive during the midday period and most were sleeping when I found them. Semipals more active than the other species. No longer much signs of nest building or of migrants going by. ♀s collected obviously starting to nest now.

T. De Benedictis
1965

Journal

14 June Meade River Coal Mine to Barrow, Alaska

Staying around camp to get the plane into Barrow, but it does seem to be taking its time. Little activity in the A.M. due to the heat. Most birds sleeping. A few phalaropes and pectorals about. 2 Redpolls feeding near the air strip allowed close approach for a change — I fail to see much difference between these and Michigan winter birds. Went towards the census plot and the wagtails were as uncooperative as ever. A pair of white-crowns here. Ptarmigan still in the area (1♂). Dryas coming up. Collect a few willow catkins and Lycopodium in the ~~evening~~ and about two the plane came in. Took some photos on the way out — but not much evident now. No sign of animals. The Barrow region — from N of the Inaru, still quite snow covered but very clear S of there. At Barrow, went into the Beach area, which has been messed up some from last season. Lots of Baird Sandpiper and longspur activity and a few dunlin. Seem to be about as many as last year, but dunlin more conspicuous and longspurs definitely up. 3 Sanderlings in a fierce chase. In the evening went to the Beach ridge but we didn't see much — a few Semipals, Red Phalarope, and a couple of Parasitic Jaegers. Ranunculus here, which is absent at Meade River. Very foggy in the evening. Went to bed about 1, after getting some laundry done.

P. DeBenedictis
1960

Journal

15 June — Barrow, Alaska

In the A.M. went out in the Baird area. More Bairds here than last year, and lots of song. King and the Semipal very conspicuous, but Semipal here about the same as last year, I suspect. A pair Steller's Eider went over and several pintail and oldsquaws about. No Pectorals to speak of, which is apparently the big feature of this year. 4 Knots in the area, and heard song and some of the calls, and a Sanderling singing. In the afternoon went to Voth area and Village Ridge but not a lot of action. Clearly fewer birds here than last year, but similar species composition, except lack of pectorals. Little on village ridge but Bairds, Semipals, and dunlin by Village lagoon. A Northern Phalarope in ~~Britton~~ Voth's area and a Knot in Britton's area with golden plovers. Not as noisy here as in the Baird Area. Apparently phalaropes scarce this year. The ground cover here very unlike Meade River, the grass flatter and more continuous — matting. Common ground herbs are matting *Salix* (*rotundifolia* and *phlebophylla*) and *Petasites*. ~~[illegible]~~ The grass much shorter. Still much evidence of last year's Lemming high but no lemmings (saw one some kids from the village caught). In the evening back in the Baird area, but there was little activity and nothing changed from earlier. It's nice to know I'm not really missing much at Meade River and getting much wetter weather.

P. DeBenedictis's
1966

Journal

16 June **Barrow, to Meade River Coal Mine, 157°25'W, 70°29'N, Alaska**

In the morning went with Pitelka out to his census plot and walked along it a ways, across central Marsh, and along Elson Lagoon + Wohlschlag to the census plot. There were lots of longspurs in the area, and few shorebirds. On the ridge I saw only dunlin and Semipals. while going out. A few Phalaropes also Holmes's Houses, and flying over elsewhere. Along Elson lagoon a little dunlin activity and 2 ♂ pectorals and 1 ♀. Lots of terns there but they only made alarm noises. Saw the nests Steve and Nick found earlier; and found a dunlin nest. Along Wohlschlag, semipal - a N. Phalarope, one pectoral by the Beach Ridge and a ♂ Golden Plover. A White-rump flew over singing. Little on Pitelka's plot - some semipal activity and we found a dunlin + 2 longspur nests. In general the bird activity high but its generally low even compared with last year. Essentially no pectorals here and few phalaropes. In the afternoon went back to Meade River with Steve and walked out S of camp most of the afternoon. Very quiet until about 4:30, when semipals and westerns and dowitcher began to sing. A little dunlin activity and as at Barrow they are starting the primary molt. We saw the Parasitic Jaeger nest and were treated to a fine distraction display, and had two eggs now. At least 4 westerns near by and lots of song. Scared a Semipal off a nest, which we couldn't find and found a 5 eggs. longspur nest.

P. DeBenedictis
1966

Journal

16 June Meade River Coal Mine, 157°25' W, 70°25' N., Alaska.
There were several pair of King Eider in the S part of L. Agassiz and several Sabine Gulls obviously sitting on nests, and Arctic Terns interested. Two pairs of glaucous gulls. Spent the evening on the census plot but it was pretty frustrating - no longspur activity to speak of and little shorebird. Heard a Western. A wagtail very concerned about the area where the banded ♀ was, but couldn't get much from it. Only one ♀ longspur seen, as last time. Wheat-ear still by the coal mine and another singing from the far side of the river at South creek. On the whole a pleasant but quiet evening.

17 June Went to the village flats area with Steve. Very quiet. A Redpoll was flying over and landed near the village, and no semipal activity to mention. A pair of turnstone here. On the flats little activity at the south end - mostly semipals, and more beyond the big pool in the middle - mostly Pectorals and semipals around the marshy area. A few phalaropes and two lone ♂ dowitcher. We went up to the ridge and along Lake Ikroavik to the ridge going into camp, but little here - an occasional phalarope and a few pectorals. A ♂ dowitcher singing and at least one dunlin, which has begun its molt of the primaries. A western singing here. Many of the birds in this area seem to have moved out and Ptarmigan are less conspicuous now. A pair

P. De Benedictis,
1966

Journal

17 June **Meade River Coal Mine, 157°25'W; 70°27'N. Alaska**
of Parasitic Jaegers came in from the N., and a pair of
Long-Tails let us get fairly close near the village.
from 4 to 6 30 we went around Lake Agassiz.
Only a few Phalaropes near camp but considerable Red
Phalarope activity on the far side in the pools. They
seem to be having trouble because they are obviously
looking for food but appear to be unable to find it.
This is the 1st time I noticed this. A ♀ Ptarmigan
near where I found the nest and a ♂♀ Western
Sandpiper on the peninsula. The ♂ singing but
the ♀ unresponsive and only loosely attached to
the area. A few pectorals, dowitchers and
semipals along here and the Western singing
from a ridge area as before. The jaegers put on
a good show near the nest. One pair of King
Eiders in the lake and also a ♂♀ of Scaup; a
Herring gull flew over. Sabines (3) and Glaucous
(1) gulls sitting. Will have to go out to the nest
sometime. In the evening went to the
far side of the Meade opposite North dunes.
Here semipals very common and Pectoral
conspicuous, mostly along the Carex pools. Much
song but Steve found a 4-egg nest. A ♀ dunlin and
Black Plover, and two dowitcher seen. Arctic
loons calling from the large lake, and a pair of
Wagtails about. The area here is much wetter than
I had expected and lots of waterbirds in the area,

P. DeBenedictis
1966

Journal

17 June <u>Meade River Coal Mine. 157°35'W, 70°24'N. Alaska</u>
White-fronted geese attached to the area and Pintails nesting. A ♂ Redpoll in the willows. In the time I was gone the flowers easily have started to come out. I have now seen <u>Pedicularis</u>, <u>Ranunculus nivalis</u>, <u>Anemone parviflora</u>, <u>Arctostaphylos</u>, and <u>Potentilla</u>. lots of strange leaves poking up.

18 June Got up late and spent the A.M. writing notes. We (Steve and I) then went back around the census plot with Steve to extend the markers a little, and add a fifth row so that it is now 400±×400± meters. There was very little activity, only Red Phalaropes, and a few ♂ Longspurs. Walked in along the shore of Lake ~~[illegible]~~ Agassiz but didn't see much. It was overcast and rather windy the afternoon and Steve and I slept a lot. About 4 we set off to get some feeding observations, I going to the village flats area. I saw almost no birds here except Longspurs, and all Phalaropes seen were flying over. Found two 5-egg Longspur nests as usual under Eriophorum tussocks on the edge of polygon troughs. The few birds I saw were down in the tall grass doing their best to get out of the wind. 4 L-T. Jaegers together, and the Parasitics and L-Tails fighting at the village. Spent the evening around camp relaxing. Somehow, that Wagtail nest camp is surviving all the tromping around that goes on here. No new fls except <u>Rumex</u> and <u>Oxyria</u>.

P. DeBenedictis
1460

Journal

19 June Meade River Coal Mine, 157°25'W, 70°29'N, Alaska

Very much nicer today. Slept late and didn't get off until 10:30. No song on the census plot, which occupied most of the day, but a profitable day. I walked along the river and then along the new area and zig-zaged through the rest of the plot. Longspurs very inconspicuous and well spread out. Suspect many unattached males are present and still can't find nest though at 2 ♀s are definitely present. 6 eggs in the one nest. I found two Semipal nests, each with 4 eggs, and a Golden Plover nest with 4 eggs, and saw a suspicious acting dunlin. At least 2 ♂ pectorals on the plot, possibly 3, and 2 ♀s, one of which's nest was being predated by a L-T. Jaeger, are here. Found a phalarope nest just off the plot still ♂♀s still associated. Saw the Banded ♀ Wagtail again. Steve and I went back later to try and get her and to mark a Ptarmigan nest — found another 4-egg Semipal nest, and saw the Ptarmigan, which really sits tight. Found the Wagtail but couldnt get really close to her to get her. The band is new. The L-T. Jaeger still looking for nests, so things will be tight! Saw a chase of 2 Semipals and a pectoral, and 2 White-crowns, one singing along the bluff while we were looking. 2 Redpolls flew over during the day. The place getting much dryer and I really would like to know what's happened

P. DeBenedictis
1966

Journal

19 June Meade River Coal Mine, 157°25'W, 70°29'N, Alaska
to the longspurs. Definitely groups of ♂'s about. In the evening we went to the bluffs 4 km. south of camp. There was nothing on the bluffs or in the willows along the river, but two semipals on the river bank on the way down. Inland a basically flat terrain broken by small ponds densely grown to Carex and with much microtopographic relief, with relatively few birds - dowitcher pectorals and a dunlin on the ground, phalaropes going over, except longspurs, and a more nearly flat carex plain also used by dowitchers and, evidently from their singing, dunlin. A group of 4 golden plovers closely associated. I got two birds from this and shot a ♀ dowitcher, which I couldn't get. Saw two Caribou on the road near the sand dunes 4 mi. S of camp. got in about 10:30 and up to 12 finishing the business for the day. This area visited not unlike most of the rest of the area in bird density.

20 June Got up late and spent part of the morning writing notes. About 10 started towards the village for shorebird observations, but ended up going towards Lake I Kmakbaks through the polygonized area between this and the village. There were few birds in the area. Saw 2♂ pectorals fighting near the village, and two dunlin calling from the air on the way to the lake. A few pectorals and 1 or 2 dowitchers, apparently ♂'s, in the area. No phalaropes. Golden Plover toward

R. De Benedictis
1966

Journal

20 June — Meade River Coal Mine, 157°25'W, 70°28'N, Alaska
the lake by the trap lines as usual. On the dunes the usual absence of everything except longspur. In the village flats saw 1-2 phalaropes (Red) and several Semipals, none ~~[illegible]~~ feeding, and the usual longspurs and Savannah sparrows. Found a 5 egg & a 4 egg longspur nest near Lake Ikmakrak at the far end of the trap lines. Slept part of the afternoon and then went to set a few traps by the mine shaft and collect a few plants. There were three redpolls chasing about in the willow, and one was singing a lot. The white rump of these birds very conspicuous. Set the traps between the mine and plot's transect in polygon troughs, but not much mouse activity. Spent the evening in camp.

21 June — Got up early in the A.M. and spent most of the day on the census plot looking for nests. A quiet day, windy and a high of 72. Nest finding was good. In the morning I found 3 longspur and a Semipal nest on the plot, all by watching birds go on. Longspur density is low, and many transients are going through the area now, all in good plumage. A few - 1 or 2 - lone Golden plovers seen going rapidly down the river. Two Long-tail Jaegers spent most of the day on the plot, foraging actively and appearing to catch small insects. About 11 a Parasitic Jaeger cleaned out the Pectoral nest and was chased away by a Long-tail Jaeger. They act like they are thinking of settling

P. DeBenedictis
1966

Journal

21 June **Meade River Coal Mine, 157°25'W, 70°29'N, Alaska**

up here. Lots of Pedicularis and Anemone in flower, and some of the grasses are starting. In the afternoon I found the banded Wagtail's nest and 2 Phalarope nests, and saw one ♀ longspur on the plot I can't account for, and one near a nest I couldn't find just off the plot. I am pretty sure of the location of two pectoral nests, which I can't actually find. A western sandpiper in the area, but the semipals that were along the river seem now to have moved off the plot. Probably two pairs of dunlin partly on the plot. Probably now only a few pairs of longspurs and a couple of phalaropes to go, but we'll see. When I came in at noon found a White-cr. Sparrow nest with 4 eggs, so I know they breed here. A Savannah Sparrow briefly sang from the census plot. A very successful day. In the evening went to the dunes S of camp on the "oxbow" of the Meade. The dunes are surprisingly barren, only longspurs seen, but in the sand foot prints of Fox and squirrel. Around the pools longspur and ? gull prints in the mud plus a little ? plover and much Semipalmated Sandpiper. Few flowers on the dunes now, mostly Anemone, but lots of willow, mostly S. alaxensis and a little richardsonii, all with some leaves. Elymus, Poa?, and Carex formed loose mats, but the sand is clearly blown. Inland of the dunes extensive Carex marsh with a good Semipal Sandpiper population and at least 1 ♂ Black-bellied

P. DeBenedictis
1966

Journal

21 June — Meade River Coal Mine, 157°25'W, 70°29'N, Alaska

plover in this area. Saw Oldsquaw, 18 Pintail, and Loons on the river, and 1 Semipal on the open mud along the river. This appears to be an important feeding habitat now that it's available again, but nothing on the mud bars yet. Redpolls in the mine and across the river all day, and a White-cr. 3 mi. S of camp. A most pleasant day!

22 June — Stayed in all day writing notes. In the evening went to the census plot with P. Pitelka, who arrived about 4:30, to show him the lay-out of the Wagtail nest. It was fairly quiet. A Parasitic Jaeger was hunting on the plot. We flushed a ♀ pectoral who immediately attracted a ♂ and we got a good bit of pre-copulation display, which I have not seen before. Still can't find the nest at the south end of the 3 row. When we got back there were two pale-phase Parasitic Jaegers in front of camp along the river, and Dr. Pitelka said he saw a ♂ King Eider going north.

23 June — About 9:30 went out to Lake Agassiz to make feeding observations, and had a wonderful time in spite of the overcast and wind. All the birds about seem to have moved here now. In the lake below the CO_2 wanigan there was a ♂ Arctic Loon and a ♂ King Eider, and 2 Pectorals, a semipal, 2-3 Red Phalaropes and 1 Northern Phalarope, with much feeding in the shallow areas. In the larger lakes to the SW, all sorts of neat things were

P. De Benedictis
1966

Journal

23 June ~~Mead~~ River Coal Mine, 157°25'W, 70°29'N, Alaska

happening. There was another ♂ King Eider here, and 2 ♀s and 4-6 ♂ Pintails. Saw 12 loons at once, 10 together, most (2-4 Red-throats) Arctics. Several small groups of Red Phalaropes and a group of 4 ♀ Reds and 4 ♀ Northerns were in the area. Saw a ♂ Red chasing a ♀ away and found a 1-egg nest. Semipals were feeding on the sphagnum ridges and islands out in the lake and often in groups - 5 birds together once without a fight - and here also dowitchers, Black-bellied Plover and a few dunlin, pectorals and Golden Plover were active. Arctic Terns overhead all the time, and glaucous gulls flying over but not sitting anywhere; Sabine Gulls still on nests out on the island. ~~On~~ One large sphagnum "island" there were 8 dowitchers, 6 pusillus, 2 dunlin, 3 Black-bellies, a golden plover, and 2 pectorals + 6-10 phalaropes feeding. Saw dowitcher copulation for the first time, and found the Ptarmigan nest again. On the way back found a King Eider nest with 5-eggs and saw 2 other ♂s in a small lake by the census plot. Diapensia and Stellaria in flower. The ♀ pectorals on the census plot were not co-operative, and there were lots of flowers along the river. Spent the afternoon writing notes and it rained heavily from 4:30 to the next morning. Dr. Pitelka said he saw the Jaeger by the North dunes.

P. DeBenedictis
1960

Journal

24 June Meade River Coal Mine, 157°25'W, 70°29'N, Alaska
Rained almost all day. Caught a longspur in a trap and spent the afternoon restoring it. P. Telke left about 4 30. About 5 stopped raining and I went to trap for the wagtail without success; An Arctic tern "fishing" in the carex pools by the 1, 5 stakes. Spent the evening collecting plants along village creek, finding Androsace new, and lots of Dryas and Diapensia.

25 June The rain has stopped and the wind died down a little. About 9:30 went across the river opposite N dunes to collect birds for Steve. There was a Merganser in the river. The flats were not very good, but there was a group of 6 redpolls in the willows (S. richardsonii) along the flood plain, of which I shot two—one flew away when I picked it up. I went North along the river and then a little inland to a large area of carex polls and here had good luck. I shot two pectorals, one feeding in a marsh and the other up on a dyke by a marsh; it gave a strong distraction display when approached. There were 1 or 2 ♂s in the area, but I heard no song. Semipalmated Sandpipers were common, and I shot ~~sup~~ six, ~~two~~ one of which I couldn't get. Only one shot while feeding. All were involved in territorial disputes or were along the edges of carex pools, except one out on a ~~sphagnum~~ dyke in a large lake basin. One bird sat on a nest after I wounded it. While collecting them a Western Sandpiper came in and landed very close to me, alarmed, but it

P. DeBenedictis
1966

Journal

25 June <u>Meade River Coal Mine, 157°25'W, 70°29'N, Alaska</u>

disappeared before I could get it. Two black-bellied plovers feeding on the sphagnum dykes in the ponds, and 3+ dowitchers flew over. Heard 1 or 2 dunlin but never saw them on the ground. The three red phalaropes collected were alone, one feeding actively (#461) and one (462) was chasing a 2nd ♂ out of a pool, then feeding a little, when collected; the ♀ was resting quietly in a shallow pool when shot. Saw only lone birds, but one ♀ in with a flock of 8 ♀ Northern phalaropes, from which I shot two birds. There was another flock of 5 birds in the area as well. Saw no golden plovers. On the way back I worked the willows a bit, finding a pintail nest with 5 eggs and a Savannah sparrow nest with 5 eggs. I got back about 12:30 and spent most of the rest of the day putting up birds and preparing stomachs. Three Caribou came by camp about noon, and Ray got all excited and went out hunting; and he also caught a nice red-throated loon in a fish net, which he didn't want.

26 June Spent the morning trying to get started and finally up about 1 P.M. and off. Spent the afternoon on the census plot with one great success and lots of moderate luck. I took a trap from the ones I had been running and set it in front of the wagtail's nest, and caught it within 3 hrs. Collected the nest and eggs. The band has a Hongkong address on it. Glad that's done

P. DeBenedictis
1966

Journal

26 June — Meade River Coal Mine, 157°25' W, 70°29' N, Alaska

though I'll miss the wagtail. Found a longspur nest with 2-3 day old young and one other nest had two young. One longspur and one phalarope nest robbed. There is a pair of longspurs by the one stake, probably not nesting now, and one by the 5,5 stake that I can't find a nest for, though I watched the ♀ disappear. An Arctic Tern fishing on pools again and 1♂ Pectoral still here. Only saw one ♀. Two+ dunlin on the plot as usual, and the semipals that were along the rim seem to be off the plot, to the N. now. ♂ longspurs are impossible and are noted only when with ♀s. In the evening went back for about an hour, and didn't get anything done. Found a Savannah sparrow nest on the way over. Polygonum bistorta in flower. When I came back I got an alarm note from a golden plover by the CO_2 warmingau and a pectoral and a semipals came in and scolded. A longspur egg shell was here. Saw much Semipal chasing and song - a 2nd bout of activity or renesting? It was like this at Barrow last year about this time also. Came in and went to bed. I am tired!!

27 June — I was five minutes too tired. After getting set up for a day's activities, I wrote notes until Ray came over, getting caught up again. Clear with scattered high clouds and little wind, warm. I went directly across the river to the flood plain but didn't find this area very active. There were

P. De Benedictis
1966

Journal

27 June Meade River Coal Mine, 157°25'W, 70°29'N, Alaska
many nearly empty *Carex* pools in the flats and a series of large, deep sand-bottom lakes along the bluff, and *Eriophorum*-moss/lichen hummock areas in between, with several large moss-lichen areas. There were a few Semipals and at least 1 pectoral in the shallow *Carex* pools, and much active feeding was going on. Shot 3 birds before I got to the lakes. Saw only two or 3 Red Phalaropes by the lakes and was unable to get any. There were ca 3-4♀ and 1-2♂ Northern Phalaropes and a few Semipals along the lakes, all of which fed mostly along the lake margins over the moss vegetation — the sandy lake bottoms being broken only by lone *Arctophila* plants 2-3 feet apart. Found a 4-egg Semipal nest here. A ~~couple~~ half dozen Oldsquaw, 1-2 pintails and a ♀ Scaup here, and 8 ♀ Sabine Gulls and 3-4 Arctic Terns over the lake. The gulls were getting insects on the lake ice and two were flycatching. No nesting here, yet. Few jaegers. The Dowitcher was in an extensive *Carex* marsh and was the only one noted. In a large lichen area (dominated by Cornicularia, Cetraria sp., Thamnolia) there were a pair of Blackbellies that obviously had a nest, which I could not find, and a pair of Turnstones, whose nest I found with some effort. The upland area was all Carex marsh with high ridges between. The ridges, 3-4 feet wide

Pt. Barrow, Ak.
1956

Journal

27 June — Meade River Coal Mine, 157°25'W, 70°28'N. Marshy in many areas, and the typical Eriophorum tussock type. Here a ♀ Golden Plover gave a distraction display when I approach, and I saw 1st pair of dunlin. 1-2 Semipals, and 3-4 Red Phalaropes, of which I shot ♀. One ♂ chasing a ♀ out of its territory. I worked over the quickly and tried the willows for Redpolls but only saw birds going over. Saw 2-3 Savannah Sparrows and a White crown, and several longspurs in the willows, but no shore birds. Got back about 1:30 and spent the afternoon preparing skins. To tired to type anything in the evening.

28 June — Got up fairly early and went to the census plot. The sky moderately overcast and warm, with occasional showers. The plot was quiet except for the dunlins, which decided to act up again. Still can't get a line on a nest. The ♂ western still there, clinging to a Semipal which belongs to one of the nests on the plot. ♂ Plover incubating. Found a longspur nest with 3 eggs, probably a 2nd nest, and I think I am beginning to get things under control. Two pectorals off the plot hooting. Several small groups of phalaropes going over. Many birds off nests when I checked them today. The jaegers seem to have moved over to the tern colony and there was a lot of fuss and bother going on over there. The Savannah Sparrow I found has hatched all but one egg, and the

P. DeBenedictis
1965

Journal

28 June <u>Meade River Coal Mine, 157°25'W, 70°29'N, Alas</u>
White-crown is still sitting. A few new flowers. The ♀ Wagtail in camp still sitting. About 4 went to South Creek to check for anything, but it was pretty wet. Saw two long-tails on the ridge and found a 4-egg Pectoral nest on the way back. <u>Taraxacum richardsonii</u> in flower. In the evening went across the river. Lots of Semipal activity but little else except a couple of N. Phalaropes. No ducks. Didn't stay long because of rain. Helped Dick a while in the evening. Nasty afternoon with moderate rain most ~~of~~ the day.

29 June Went due west from camp to see what is out there. Mosquitoes! I worked along to the lake on Village creek then along the creek to the next lake, across the ridge to the south and along the lake on the other side and back to camp. Most of the area is upland with little development of <u>Carex</u> marsh except in polygons, and much is quite dry. The subsurface everywhere is sand. There was a Oldsquaw, a Scaup, and a Pintail ♂ on the lake on Village creek, and a golden plover along the edge as usual. Black-bellies calling from inland. A few pectorals on the polygons. A Semipal here. The creek is densely [illegible] with <u>Salix</u> patches 6-8" high, and inhabited by longspurs only. A Dowitcher was feeding in grassy areas along the creek and 25 and f

P. DeBenedictis
1986

Journal

29 June. Meade River Coal Mine, 157°25'W, 70°28'N, Alaska
Western Sandpipers were just above the 1st lake. Two pairs of long-tails acting like they own the place but evidently not sitting. A pair of Mergansers in the creek and a Goose nest with 3 eggs near the 2nd lake. There was a semipal here and 1-2 pairs of Dunlin and a few pectorals but almost no phalaropes. Several geese, 1-2 each Arctic terns, Sabine Gulls, and Arctic loons on the lake and 1 Yellow-billed loon. The ridge was fairly barren - but near the lake to the south 3-4 Semipals, a few dunlin, golden plover, a few phalaropes and a few pectorals. Arctic Terns and Sabine gulls working the edge of the lake. Came back along the west edge of Lake Agassiz but stayed up high to avoid mosquitoes, which are bad. No overturns, and only a little doubtable activity. Still small groups of ♀ phalaropes, and Sabine Gulls sitting. didn't see the eiders. Most of the area is very dry, and Arctophila becomes extensive along the lake margins. Didn't get much done in the afternoon. Still tired out a lot. A few new flowers turning up, including a strange Anemone.

30 June. Worked towards Lake Agassiz without getting a lot done. Ray shot a caribou during the night and everyone was buzzing about during the

P. De Benedictis
1966

Journal

30 June **Meade River Coal Mine, 157°25'W, 70°28'N, Alaska**
morning. About 9 I took Jackie to an old caribou carcass and then left for the lake but got stopped by a suspicious turnstone. On the census plot the ♂ plover incubating and a dunlin flew in and looked like it landed on a nest, but I couldn't find it. Near the lakes on the W end of the plot I surprised a turnstone which acted like it had a nest. While looking for it I flushed a Black-belly plover, and ~~later~~ found its nest, with 4 eggs. The turnstones and 2 Semipal Sandpipers were eating something in this area, the first time I have seen them on the Carex aquatilis flats in some time. I checked the Island in the N lake and went back to camp, collecting a few flowers on the way, and then went out to the area again in the afternoon. The Turnstone remained uncooperative but the # of birds on the flat has increased. I first found a pair of Semipals, then 5 semipals and a Western together, and finally 9 Semipal and 2 Longspurs together. They were running about and feeding actively. I got down on my knees and found several mosquitoes without trouble, and saw nothing else. On the census plot jumped a dunlin at the 5.5 stake, but no nest as usual. The 3-egg Longspur

P. DeBenedictis
1966

Journal

30 June Meade River Coal Mine, 157°25'W, 70°28'N, Alaska
nest still with three eggs and the White-cr. Sparrow still incubating. A slight drizzle in the evening. Rodger Bengard got a ♂ Microtus oeconomus from the boys in the village today, a 59 gm. ♂ with testes 8x6 mm, epididymis —.

1 July In the morning I went to the village dunes to see if the shorebirds were up on the sand & there eating mosquitoes as by the census plot. The weather was overcast and windy, and there was little mosquito action until about 11:30. There was little activity near the village, not surprisingly since there are about 15 people here now. On the disturbed areas near the village many old flowers out, and the dunes were alive with Diapensia, Arenaria and Potentilla and totally dead bird-wise - One golden plover in the usual area near lake Teshekpuk. There was a little semipal activity on the village flats, but not much feeding activity. The few birds I saw were mostly sight in the willows. One ♀ pectoral chasing mosquitoes in a Carex pool like a semipal. There were half a dozen redpolls in the willows and a pair of Savannah Sparrows carrying food, chipping loudly in one area, but not going to a nest. Flushed a ♀ Ptarmigan from a 12-egg nest. Lots of longspurs but I didn't see any nests. In all, very quiet. Spent the afternoon trying to build

P. DeBenedictis
1966

Journal

1 July Meade River Coal Mine, 157° 25' W, 70° 29' N, Alaska
what some of the newer flowers are, and then went to the north dunes with Phil. It was lovely, the Mertensia and Polemonium in full flower. There were a pair of Black-belly plovers giving a distraction display here, but didn't try to find a nest. No sign of nesting Parasitic Jaegers but birds were in the area. Much of this area is heavily trampled by caribou, but we didn't see any. Ray mentioned he found a Ermine burrow near camp, and the kids in the village brought Rodger a Lemmus. A nice but unproductive day.

2 July Rain Rain Rain Rain Didn't get out.

3 July Overcast and very windy. Stayed in the morning writing notes and then helped with a plane bringing supplies and taking Kelly out. I went to the census plot to check things but nothing really going on. All the longspurs have hatched and one set of ~~[illegible]~~ semipal eggs are pipped (barely). The ♂ Wagtail is still in the area. Only saw one pectoral and the jaegers have pretty well moved off the census plot. The dunlin are still sneaking around in the grass - I'm beginning to suspect they have chicks already, but it's hard to tell, and there seems little hope of finding any. The Savannah Sparrow has only two young now, and the White-c. has hatched. Stayed in the evening.

P. DeBenedictis
1966

Journal

4 July — <u>Meade River Coal Mine, 157°25'W, 70°28'N, Alaska</u>

Clear, with high overcast building up in the afternoon and evening. In the morning went out to Lake Agassiz, but didn't get a lot accomplished. The wind was high and many birds seen were resting in the lee of <u>Eriophorum</u> tussocks. There were the usual few pectorals and dowitchers in L. Agassiz, along with Phalaropes and Semipals, and lots of terns feeding overhead. I first checked the <u>Corniculatus</u> - <u>Arctophila</u> area near the Black-belly nest, but nothing much was there; still 2-3 Semipal and a ♂ Western feeding on margins there, and one of the Turnstones did a little. There were 4-5 Red Phalaropes in the lake by the census plot, and saw one copulation on this late date. The birds here were more suspicious than last time. Out in the marsh, most of the shorebirds were on sphagnum dykes in the lake, and seemed to be surface feeding except for dowitchers. Could see Pectoral feeding. No dunlin here this time. The Sabine Gulls were widespread and evidently some finished incubation. Tried unsuccessfully to find Tern nests. Worked my way out slowly along a dyke, but little going on: Largest group of ♀ Northern Phalaropes and a few ♀ Reds in the area, few ♂ Northern and one ♂ Reds scattered. They wouldn't sit very well, and had no luck in feeding observations; Most were well out in deep water or moderately

P. DeBenedictis
1966

Journal

4 July — Meade River Coal Mine, 157°25'W, 70°29'N, Alaska

over grown areas. The Pintails and oldsquaw still in the area; few loons and no eider. In the afternoon went down by South Creek but the wind and weather conspired against me. A golden plover out of place by the 1.1 stake of the census plot and little else along the River. The creek was low and the sand dunes by the creek interesting botanically, with a disparate flora compared to the other areas. The pair of Wagtails here mobbed me for the entire period I was out. Found a pintail nest with 7 eggs by the 2nd little creek to the south. Went along to the lakes + polygons across the creek, but there was nothing at all, except 2 Red Phalaropes, a Pectoral, and 2-3 Semipalms, the last near one of the larger lakes. There is evidently little activity by the lake basin below South Ridge, as only a couple of Terns and Phalaropes appeared to be in the area. A golden plover along the ridge, and a pair of Dunlin sneaking about in the dry grassy polygonal areas. a L-tail Jaeger chasing gulls landed on a nest(!), which had one egg, so they have decided to try after all. The area between the ridge and the 6,6 stake not very active, but got distraction display from the local golden plovers and must have seen 8-10 dunlin here and on the census plot, all paired

P. DeBenedictis
1966

Journal

4 July — Meade River Coal Mine, 157°25'W, 70°28'N, Alaska
and running about giving alarm and warning calls, and little chasing. They really act most like they did last year when they had young; Semipals on the plot having hatched, nor the golden plover. Spent the evening in camp. It seems evident from today's observations that at least the dunlin have changed over to surface feeding, as I saw little indication of subsurface feeding in any of the birds watched. Mosquitoes are apparently the more important resource here, compared to Barrow where tipulids are big, unless the birds are selecting out tipulids.

5 July — Celebrated the 4th late by crossing the river opposite the North dunes and shooting the place up.! The sky was overcast and there was a light drizzle and wind, that lessened about 10:30. At this time the mosquitoes became absolutely unbearable. The area hadn't changed much from the last time I was there, Semipals continuing as the common sandpiper and dunlin and golden plover being very scarce. Phalaropes are scarce even in good habitat and I had to work for the birds I shot, and then lost one anyway. I started in along the willows, and near where I got most of the birds last time, there was much Semipal. activity, involving groups of 3 to 7 birds as at the start of the season, and some aerial singing. A few birds

P. DeBenedictis
1966

Journal

5 July — Meade River Coal Mine, 157° 25' W, 70° 24' N, Alaska
were feeding along the river and just inland of the willows, but most seemed to be involved in chases. Two birds were taken on a Conicularia area going to Eriophorum, where they did not seem to be feeding. I saw none feeding along ponds, although birds were in the area; the tall grass made them difficult to see. Birds were then again concentrated along the 2nd emergent beach, which is also predominantly Conicularia flat, and were seen feeding on this, and walking into the small pools around them; they did not appear to get out in the water much. A few Red Phalarope flying over, but only 4-6 seen on the water. One shot got away, as I only hit it in the legs, and a pair shot together included a ♀ that was just on her 2nd egg - but which may have laid an earlier clutch. No flocks of reds, but a group of 5 ♀ Northern. Flushed 2 ♀ pectoral, which were together in a wet lake flat, Carex area, and eventually shot 2 other ♀s. Only ca 2 ♂s in the area and no song. Two pairs of black bellies in the 2nd Conicularia beach area, and got distraction display from both; No goldens here at all. One dunlin in the area, but it didn't do much except scold, then fly off. ~~Watched male Dunlin~~ Found a Spectacled Eider's nest with 4 eggs while chasing a Phalarope, and saw a Black Parasitic Jaeger sit on a nest at the end of the

P. DeBenedictis
1968

Journal

5 July

Meade River Coal Mine, 157°25'W, 70°29'N, Alaska

flats; the mate was a white bellied bird. Worked back through the willows along the river, looking for redpolls, of which I got 2, and saw 2-3 others. There were a few Savannah Sparrows in the area, but I couldn't find the nest again, and didn't see whole clutches. Semipalm. Sandpiper (2-3) along the river, where I shot one, and in the larger openings, which are still largely mud, in the willows, and obviously common in the entire area. There must be 40-60 birds still there, and Steve and I have collected nearly 20 there in addition. Pectorals are getting hard to find after the collecting of 4 birds, though. The afternoon spent taking care of stomachs, and in the evening went to the dunes on the oxbow of the Meade. They are unlike what I had expected, in that there is little herbaceous plants coming up, a tribute to their activity. The willows are very leafy now, and many of the grasses will soon flower. Arnica is common, but other flowers are scarce. The stabilized areas and the lakes have gone down considerably and there was less Semipal. activity than the last times I was here. No shorebirds seen on the dunes. 2-3 Semipals seen along the River on the way there. Got back late, did the dishes, and went to bed. Got a new visitor, so it will likely rain. Art McKee said he found Ptarmigan chicks this evening.

P. DeBenedictis
1966

Journal

6 July **Meade River Coal Mine, 157°25'W, 70°27'N. Alaska**

Spent the ~~evening~~ day writing notes and in the evening went to the census plot, a fortunate choice. The mosquitoes are rapidly becoming impossible and now everything is hatching. The ♀ Ptarmigan is still setting and the 9 eggs are not pipped. The Semipal nest near there is hatched. The ♀ plover was on the nest, eggs o.k. There was at least one dunlin in the area, but they are moving down towards the N lake by the plot. Both semipal nests in the area have hatched, ~~and the~~ longspurs are finishing their clutches. One lb nest had been robbed, the lining of the pulled out. There was a mixed group of pectorals in the area, but the usual ♀ seems to have left; got one brief alarm call from a bird that soon left the plot. The dunlin continue to act like they have chicks, which I can't find. and an extraneous pair was in the area. Both Phalaropes appear to have hatched, and I found one brood. A long-tail Jaeger went over the plot rapidly and left. A wagtail well out on the plot. The Semipals that had been off the plot by the Lemon were on the area, and probably have chicks. On the way in checked the Savannah Sparrow nest, taking one of the two young, and the white-crown nest, which has young too small to take. Got in about 11:30.

P. De Benedictis
1966

Journal

7 July Meade River Coal Mine, 157°25'W, 70°27'N, Alaska

Didn't get off until the Afternoon, and this went poorly at that. I went up by the dunes opposite South Creek to try and get some more phalaropes, a mistake if I ever made one. The area here is upland grassy pools, with one small *Eriophorum* flat, and 3 lakes away from the dunes. Most of the birds I saw were in the *Eriophorum* flat area. There was nothing in the dunes but mosquitoes, and no flowers. Saw a *Colias* butterfly. Inland in the polygon area shot a Phalarope in the legs and lost it, this being the only bird I saw. A ♀ pectoral near here certainly had chicks and was very alarmed at my presence. She fed at the edge of a grassy pool while running around in front of me. A dowitcher and a semipal were the only other birds seen in this habitat. On the Eriophorum flat a golden plover scolded me and I jumped another pectoral with chicks, which remained well hidden. By this time the mosquitoes were so bad 3 other ♀ pectorals had come in, and a ♂ Semipal started acting up. I learned it is hard to shoot pectorals when a mosquito is crawling up your nostril, or ear, which was constantly the case. Only got one bird. Walked back towards the lakes, seeing only a couple of

R. DeBenedictis
1966

Journal

7 July Meade River Coal Mine, 157°25'W, 70°27'N, Alaska
Semipalms. Nothing along the river, except lots of Longspurs in the willows. The Longspurs seem to be very bothered by the mosquitoes, and are constantly scratching. Too many mosquitoes to try anything in the evening, so I stayed in. Life is impossible out here.

8 July I tryed, but the mosquitoes wouldn't let me. I went to the area by the Black-belly nest to see what was going on in Lake Agassiz, but it was miserable. There was little activity by the CO_2 wannigan but near the end of Phil's transect I began to run into shorebirds. The ♀ Ptarmigan was in this area and gave a strong distraction-threat display when I approached. She must have had chicks, but I couldn't find them; the nest is hatched, probably today. Near here I began to find semipals that act like they have young, but saw no chicks. The adults were mostly up above the beach line for Lake Agassiz but came down into the lake basin to scold. In the lake basin they did not, or only occasionally fed, whereas they fed more frequently between bouts of scolding in the upland areas. There were 1 or 2 phalaropes that also acted suspiciously in the lake basin region, and I heard chicks calling here. The turnstone came out to scold with the Semipals, and a pair of Westerns were in the area

P. De Benedictis
1966

Journal

8 July Meade River Coal Mine, 157°25'W, 70°27'N, North briefly. There were 3-5 Semipals feeding on the Cornicularia flat at the N end and up to 7 together at the south end. The Plovers are still incubating. There were only half a dozen Arctic Terns over L. Agassiz this time and few Sabine Gulls were in evidence - I saw no ducks on the lake except 1 Oldsquaw. Near the cornicularia flat in the Eriophorum flats a ♂ of dunlin gave alarm calls but didn't feed, and was soon joined by 1-2 Semipals. Pectoral were noted along the edge of the lake but did not seem to be nesting birds. I went back through the census plot. Only a few Semipals and dunlin were there, all in the Eriophorum flats and the golden Plovers are just finishing. One egg has a hole in the shell & the others are cracked, should hatch by tomorrow. Slept in much of the afternoon then went over by the village to see if anything was there, but mosquitoes were impossible. Didn't really try to get out in the evening, but skinned a Wagtail young from Ernest by camp.

9 July The weather turned very bad and the mosquitoes seem to have disappeared, so I went to check the census plot. Not much activity due to the wind, but most of the nests have hatched now and it's getting fairly quiet there. There are now longspurs

R. De Benedicti
1966

Journal

9 July Meade River Coal Mine, 157°25'W, 70°N, Alaska

scattered all over the plot but no juvenile seem to be about. Only the 3-egg nest is still active. There don't seem to be many as the longspur on the plot. The Plover nest still hatching (10 AM) and the ♂ on, giving a good distraction display. The ♀ just coming by and calling. A pr of Semipals and a ♂ dunlin apparently with chicks were in the wet Eriophorum flats W of the Carex-Arctophila area, and a ♀ pectoral was feeding in the Carex pools here. The only other Semipal seen were in the Carex pool area (1) and by the nest at 5,5 in the Eriophorum; this nest produced only 2 young. The long-tail Jaeger near the plot again. A ♀ pectoral was alarmed near the 5,2 nest and here I found 1 chick which I collected. The ♀ only occasionally gave distraction display; she frequently came very close to me while calls a "wik wik" call and often fed. Most of her activities + the chick were in an pool which has filled with Sphagnum and is being grown over by Eriophorum. In the afternoon I went over to the village and the village flats to see what was there, taking advantage of the lack of mosquitoes. There was only a ♂ of Semipals acting alarmed. Saw 1st fledgling Wagtail by the Coal Mine and another along the creek, and a

P. DeBenedictis
1966

Journal

9 July Meade River Coal Mine, 157°25'W, 70°27'N, Alaska
fledgling wagtail there as well. The wind kept up and a little rain fell in the afternoon and evening so I didn't try to get net. With all the chicks about now, I'd had to get feeding observations - much of that I see apparently under : Tuning (compact) conditions of the adults. Can't see the ducks at all.

10 July Spent most of the day writing notes and photographing flowers in the vicinity. Didn't do any serious bird watching. Went down to the village flats + dunes; nothing really there to mention - a ♂ of Semipals by the village again + 1-2 phalaropes flying near the flats. Saw at least 6 fledgling longspurs. Didn't get out in the evening. Put up another Wagtail from the nest. Mosquitoes really going crazy over the Polygonum flowers now.

11 July In the afternoon I went over by Lake Agassiz with Ray to look for an eider's nest, which decided not to turn up, and then went over to see how the jaeger nests were going. The weather was overcast and windy, with occasional light showers. Very little activity over Lake Agassiz and not as much along the shore as earlier. Semipals still come in alarmed and evidently have chicks, but can't find them. Again they come to the lake to scold but seem to be most active in the region just above the lake basin. The turnstones were in the area, and

P. DeBenedictis
1966

Journal

11 July Meade River Coal Mine, 157°25'W, 70°57'N, Alaska
Heard Western Sandpipers. Not so many Semipals on the Cornicularia area as usual, but still half a dozen or so. The Black-bellies still incubating. A few ♀ pectorals in the marshy area along the edge of the lake but not out in the hollow Carex. The Phalaropes were conspicuous in these areas also. The Parasitic Jaegers now have chicks, and both dive at me and give the distraction display. Ray eventually found the chicks, which I didn't see. I went up to South Ridge. As I came out of the polygonal-like area, I heard a Western alarm call. It began to rain and the bird went in and sat on 3 chicks, which I collected. Semipal and golden plover in the area. Couldn't find the L-T. Jaeger's nest. Went back through the census plot. A lot of shore bird activity near the six row, including Plover, Turnstone and dunlin, but I hadn't the time to search for chicks. The turnstone followed me to the 1, 2 marker, scolding all the way. Seven wagtails (5 young) scolding near the mine. In the evening went back to photograph the Black-belly nest. Near the Ptarmigan nest flushed a ♀ from about 7 chicks, of which I took one. There was N. Phalarope that acted like I had chicks in L. Agassiz near here. Couldn't find Western's again. Went into the census plot

De Benedictis
1966

Journal

11 July *Meade River Coal Mine, 157°25'W, 70°2? N, Alaska* but the big bird concentrations were South of where we went (along the 3 markers). The mating places were near the 3,6 marker and a second ♂ has moved into the area where I found the pectoral chicks. We found 2 chicks here, both fairly large but without flight feathers. Came in about 11. A very nice day, and the Western chicks were a fine discovery. Cute little buggers.

12 July The word of the day is wind and rain.

13 July In the morning went to check the Plover's nest and the census plot. There was very little activity along Lake Agassiz for a change, but a few semipals remained in the area and were on the *Caricularia* flat, where they did a little feeding. The Knots were inconspicuous for a change but still in the area. The Plovers were just hatching, 3 young, one still wet, in the nest and 1 egg, which did not seem to have started. The ♂ gave strong distraction displays but the ♀ stayed off. I went then to the 6,6 marker and worked the census plot slowly. A ♀ pectoral which acted like I had young flushed from a very dry *Carex* pool being invaded by *Eriophorum* but then scattered over a large area of *Eriophorum* peat. A dunlin in the same area also gave alarm calls. 5171 Two cold eggs in the Semipal nest and the Longspurs fledged. A dunlin probably with young was near the 6,

P. DeBenedictis
1964

Journal

13 July Meade River Coal Mine, 157°25'W, 70°27'N, Alaska

Weather, in wet Eriophorum flat area. Scattered longspurs here and flushed several fledglings, at least. A White-crown sparrow gave long series of chip notes from the riverbluff, but I couldn't find anything. They are still singing across the river. The local golden plover's home was worked over by the 7,2 weather and the nesting pair is still W of the nest. Only 1 semipal around, near the cattle pair of plovers. There seem to be fewer longspurs here than last time, but I don't know where the extras may have gone. Spent the afternoon in camp writing, and went toward the village and the village flats in the evening. There was no shorebird activity here at all, but several young longspurs and lots of adults. The local Wagtails fledged between 9 and noon today, leaving one egg in the nest. Art McKee said he saw 2 Ravens about noon.

14 July Stayed in the A.M. writing notes. In the afternoon went to the flats on the far side of the meade to collect birds. I went almost as far as the dunes, then walked nearly to the N. ends of the area. There was little activity except for mosquitoes, so bad I wore a head net most of the time. The Semipal. activity was localized in 3 areas, and there were no groups of adults like

P. Pitelka(?), 1966

Journal

14 July Meade River Coal Mine, 157°25' W, 70°2?' N, Alaska

Last time. One area was in the low willow outlined of the slope bordering the river. Only 3 or 4 birds were seen here, but these may have had chicks. The second area was on the Cerinculus(?) flats. Here adults behaved as usual and appear to do some feeding, though not as evidently as before. The only other area was on the largest sphagnum depressions(?) the ponds. Here found an adult with chick. Two ♀ parasites with chick here, both near ponds. Black-bellied Plovers conspicuous on the Cerinculus(?) flats but their chicks appear to be down in the marshes; got distraction display once. Phalaropes have become much more conspicuous out in the deeper pools, where about equal #s of both species are getting up and flying about excitedly, occasionally landing out in the deeper ponds, where the Carex was fairly thick. No ♀s were seen, and only a dozen or so individuals of each were noted. They are hard to get when they act like this. Longspurs were widespread but few young were seen. They were more numerous in the willows than elsewhere. Here also found Savannah Sparrows, 1-2 Redpolls, and 2-3 Yellow Wagtails, ? including a young bird. The jaegers at the far end of the marsh still around and evidently no longer sitting. Arctic Terns still attack at gulls and jaegers that go over, but can't find

P. DeBenedictis
1966

Journal

14 July Meade River Coal Mine, 157°25' W, 70°27' N, Alaska
notes. ~~Oldsquaw with 7 young,~~ ~~very small~~ The Spectacled eider nest now contains only egg shells. Got back about 6 and spent the evening skinning the shorebird chicks I got.

15 July Went back in the A.M. to cover the flat again, as I don't have enough adults. I started by the ridge near the south end of the area, but had little luck — nothing but 2 Semipals and a Pectoral ♀ with two chicks here. The pectorals were by a Carex pool and the Semipals in the willows inland from the river. There was a good concentration of birds inland from there by the large ponds, mostly attracted by Black-belly plover alarm calls. The plover still seem to be concentrated in the marshy area but scold from the drier upland. At least 5 Semipals came in, but I had the best luck finding them closer to the river; the birds I got were on a Eriophorum covered area near some large ponds. Phalaropes flying over again today, rarely landing and then usually out in fairly deep water. There was an oldsquaw with 7 chicks here. Walked back along the river where I got a Wagtail. Nothing in the upland area here except a turnstone, which may have come in from the inland area. In addition

P. DeBenedictis
1966

Journal

15 July — Meade River Coal Mine, 157°25' W, 70°27' N, Alask

to the usual satyrid butterflies. I saw and caught a Colias and saw a possible Boloria sp. When I got back to camp Max Brewer was showing everyone about and then a ♀ phalarope came by along the river obviously herding chicks. I caught two of them - a strange place to find them. I put everything in the icebox and went to the dunes on the oxbow with Dr. Angus. Saw a Golden Eagle and a King Eider with 4 chicks on the way up. There were no birds on the dunes but inland in the sandy area a pair of Black-bellies gave distraction displays near a Carex pool (nearly dry) and 8-10 Semipals and 1-2 pectorals in the area acted very alarmed. No other shore birds were noted. Spent the evening putting up chicks, until 3 A.M. Figure I'll sleep most of tomorrow.

16 July — I did. In the afternoon went to photograph some Dodecatheon on the far side of the river, which I found yesterday. I walked along the willows seeing few birds, mostly longspurs and Semipals. One pair of the latter gave strong distraction displays here. Afternoon and evening spent around camp. Weather poor.

P. DeBruyckere
1966

Journal

17 July <u>Meade River Coal Mine, 157°25'W, 70°27'N, Alaska</u>
Windy and overcast. After the A.M. chicks I went to the census plot to see how things were going. The whole area, [illegible] was [illegible] all the time. There was a noticeable decrease in the # of shorebirds in the area and also off the plot, save for Red Phalaropes. The latter were very active and came on to the plot from some distance away, almost acting like they had chicks, though they gave no indication while on the ground. They and a pair of plovers were in [illegible] on the polygonized ground on the plot. Longspurs were widely spaced and much decreased from the last visit to the plot. They still don't seem to have begun the post nuptial molt. Only one fledgling was seen. No jaegers this time. The afternoon on the North [illegible] helping Dr. Argus with dwarf willow-collecting, which was very interesting. A long-tailed jaeger spent some time chasing young longspurs. Wind came up very strong and it rained in the evening.

18 July Tried to make the plane come. Went out along the river with Phil and then onto the census plot to see what was on the ground. The golden plovers were in the same [illegible] as last time and we found a ~~[illegible]~~ pectoral sandpiper's nest with 4 eggs near the census plot.

R. DeBenedictis
1966

Journal

18 July **Meade River to Barrow, Alaska**

The weather was really bad, so we didn't stay out very long. Cooking dinner made the plane come, as usual.

19-24 July In Barrow for R+R. The weather was overcast, windy and raining most of the time so I didn't get out much. The few sunny days we had I went out to look around, and found not much change from last year, except that there aren't any pectorals or phalaropes here. A few birds with chicks. Found a brood of small Semipal. chicks in a saturated *Alopecurus* (75% cover) area about 100 yds from camp. in the Barrel area. No nests. Pretty good flower show. I am impressed by the much greater abundance of *Poaceae* here (compared to Meade River) and by the absence of dicots on the ground mat (except Dwarf willows). Obviously it's been a cold wet July. On July 20 went with Custer to the traps and he flushed an Oldsquaw from a nest with 7 young by the weasel road in the Voth area; I collected one of them. No lemmings seen but still lots of sign from last year; old runways, droppings etc. Only a few jaegers are about, mostly Parasitic. Occasional flocks of eiders, as usual. Saw almost as many chicks in 2-3 days as all last summer, so the birds that were here did pretty well. Attempts to take photos were pretty well frustrated. On the 24th went to Cape Thompson, hope for only 4 days. The weather was good on the flight out and we went low. Saw only 3-5 jaegers and no owls

Journal

24 July Barrow to Cape Thompson, Alaska
to Cape Beaufort and only a handful (6-10) of shorebirds, mostly along the Chukchi sea. There were several 100 caribou between Wainwright + Beaufort, and 4-5 groups of white-fronted geese. Saw only one crane, and no other swans. No marine mammals seen, but lots of alcids and glaucous gulls. The country to Beaufort all coastal polygonal-lake plain, then to Thomp. pits + foots hills, heavily trampled by caribou + with nice braided streams. Didn't see any wild life here as we were up to 2500-3000 ft. Cape Thomp. was fogged in and we came in low enough to see sparrows. The Thompson area was really lovely. Had hot, clear, sunny weather all but the last day when waiting for the plane. The Hls. are the most obviously different feature here, and I found neat plants including ferns on the rock slides. The lowland have much better Eriophorum tussock than Meade River, and the surface polygonization is not at all evident if present. The marshy areas are much like Central Marsh, and not like the grass land at Meade River. The willows along Ogotoruk Creek are more extensive than at Meade R. but not any higher, so I am not so surprised at Bluethroats not being seen at either place. The first day (night) walked in along the river and then over to Crowbill Pt., my I hand wet hike in the Eriophorum. Lots of white-cr + Savannah Sp. along

P. DeBenedictis
1966

Journal

Cape Thompson, Alaska

25 July the creek and Longspurs everywhere. Wagtails were fairly common, but not so Redpolls. Lots of Murres and Kittiwakes at Crowbill and one ♂ Rough-leg hawk. The next day (25) went to the 2nd Alcid colony, hiking over the flats. Saw very little on the way, but a few Longspurs, Water pipits, + snow Buntings in the high country. Saw 6± Pelagic Cormorants, 1 Pigeon + 1 Black Guillemot, ~~300~~ 75± Tufted Puffin, 200± Horned Puffin, ~~10,000~~ 20,000± murres, 10,000± Kittiwakes, 1 White Gyrfalcon + 1 Golden Eagle along the ocean. Found the Gyrfalcon nest, couldn't see young. In the evening saw one microtine in grass by camp. Spent the

26-27 July 26 + 27 in the valley and lower creek near camp, looking at plants and for Bluethroats, etc. No luck. Saw one family Willow Ptarmigan with flying young (2/3 grown) + an odd Spectacled Eider, which was collected, plus 6 + 7 more microtines, 1 Caribou, 2 Red Fox, and a Grizzly Bear. Baird's Sandpipers common along the creek but with nearly full fledged young - these only with down. Flocking. Saw 1 Northern Phalarope (adult ?♂), 1 juv. Red Phalarope, 1 Dowitcher, 1 Semipal, and 10-15 Pectorals, including juveniles. L-T. + Parasitic Jaegers commoner than at Meade River, but no other raptors. 28 July spent

28 July walking along Crowbill Ridge looking for Wheatears, without luck. A few Water Pipits + Longspurs + Snow Buntings on the slopes. In the headlands of

P. DeBenedictis
1966

Journal

28 July — Cape Thompson, Alaska

the creek to the N of camp (1500 ft) found 6-8 Baird Sandpipers (which scolded) with full grown young in the meadow and on the Dryas slope, and one Knot which spent most time on the Dryas slope. When it landed it went into a hunched posture & sunk about, and called "dee hee" constantly I believe in anxiety or warning couldn't find young. One Rock Ptarmigan ♂ here. Coming down the mts. to camp along a creek found 1 family + 3-4 ad. Willow + 1 more Rock Ptarmigan, saw a Knot in dry meadow the bottom of Ericaceous slope, and 3 Bar-tail godwits in wet Carex meadow area. Couldn't find young. Western Sandpipers common along the creek and 3-4 Pectorals and 1 Bairds. Seen them getting insects being blown on to snow drifts. Semipal. Plovers were uncommon, and saw a few nearly fledged young. Golden Plovers, one pair with flying young, were in the meadows at the base of the Dryas slope. Not much along Ogotoruk creek except the usual sparrows and West. Sandpipers & Semi pal Plovers.

29 July — On 29 July went back to the alcid colony. Found many Snow Bunting and Water pipits (all with young fully fledged) and one Family of Wheatears, at last. While watching them an adult ♀ White Wagtail jumped up and landed 10 feet from so I could see it well for 5-10 minutes, when I began to chase it to hear the notes. It was a gray-backed bird, just starting the post nuptial molt.

P. DeBenedictis
1966

Journal

29 July — Cape Thompson to Barrow to Meade River, Alaska.

It and the Wheatears were gone when I came back 2 hrs. later. The alcid colony unchanged and couldn't get to the Gyrfalcon nest. Saw 2 Black Guillemots, but nothing else odd. The hike back was uneventful & still no plane. getting lots of butterflies and plants I haven't seen before.

30 July — The 30th the plane was due in the A.M. so went went butterfly collecting. Cold & I didn't get much. Saw more pectorals than before but little else (another Semipal. Sandpiper). No unusual birds except a dead Glaucous-winged gull, which I saved. The plane came about noon & then went to Kotzebue & back. The flight back was uneventful, except for the well overloaded take-off and landing, and we got to Barrow about 8 PM. The whole trip was really great. I got a new flower for the area, and feel I really understand more about tundra "diversity" than ever before. I only hoped that the season hadn't been so far along.

31 July to 2 August — Spent the next three days at Barrow, and then back to Meade River. Lost my pen. Almost out of note paper here now. To now a most profitable summer.

3 August — Kicked out of bed at 8 to go to Meade River and got there ca 9:30. Every one there seems chipper and the only big change is the passing of most of the

P. DeBenedictis
1966

Journal

3 August Meade River Coal Mine, 157°25'W, 70°27'N, Alaska
Flowers, now only in the snow drift areas and late flowering composites. The A.M. spent getting settled in camp, then Niko Verbeek and I went to the oxbow dunes. There was little bird activity. We flushed 2-3 Pectorals in the polygonal marsh area and a Semipal, and I heard a Phalarope. Saw a Black-belly Plover attack a Jaeger. Jaegers were scarce but several gulls around. Not as much longspur activity as before. Nothing in the River, which is low now, and little in the willows. Found several new flowers. Still no microtine activity. Walked back in along the dunes. In general, the flower season past and everything is setting seed. Not many mosquitoes. Didn't get out in the evening. Art McKee brought a Yellow-billed Loon in from the village, which I will prepare tomorrow. Niko said the last Pectoral nest on the plot hatched 30-31 July.

4 August Spent the A.M. Fixing the loon. It was tough. In the afternoon went down to the North dunes; flocks of Longspurs, mostly in winter plumage, by the village and a few wagtails by the river. didn't see any sparrows. 38+ Caribou here in the A.M., across the river. The stabilized dunes were birdless, but a few longspurs and a Golden Plover in the polygonized areas inland. Nothing by the

P. DeBenedictis
1966

Journal

4 August Meade River Coal Mine, 157°25'W, 70°57'N, Alaska
dunes. Found a couple more new flowers, think I'm done, at last. The trip back along the river uneventful - only 1 Semipal. 8-9 Longspurs + 2 Wagtail seen. Loons on the river; few ducks, another group more conspicuously absent. In the evening went across the river a short time, but saw little. Then went to Lake Ikmakuak with A.S. to look for Jaegers. We saw lots of glaucous gulls on pink caribou carcasses and a few (5-6) Parasitic Jaegers along the lake. They attacked Guy Sheppard's dog, Duke, when he went ahead of us. We saw 3 Pectorals, a golden plover, 2 dunlin and a Red Phalarope at the junction of the polygonal + Eriophorum association on the way back in. With the overcast and low winds + sunset the evening colors are now magnificent - too bad I don't have any color film. Along Lake Ikmakuak there are many small gullies emptying into the lake, and a very distinctive plant association; the gullies also popular with longspurs. No microtines as usual.

5 August Went back to Ikmakuak. Wind very fast now and its unpleasant out. No mosquitoes still. I saw 1 dunlin, 1 Pectoral and 3 imm. Red Phalaropes in the very shallow polygonal

P. DeBenedictis,
1966

Journal

5 August. Meade River Coal Mine 157°25'W 70°? N. Alask
pools on the way; a golden plover on the Eriophorum flat, and a ? ? of Pectoral on the edge of the stabilized dune. One oldsquaw seen. Lots of gulls in the river. a ♀ Caribou was swimming across Ikuak-rak. There were a few longspurs along the lake, mostly singles, well along in the postnuptial molt, but most were by the village, where they are in a loose group of 2 dozen+ birds., All in winter plumage. No other landbirds were noted. It's very windy and cold, so spent the evening scraping meat off the bone. ~~?~~ 8 pm.

6 August Strong winds all day long. Didn't try to get out much except close to camp. No noticeable bird activity. Collect Artemisia from near the Coal Mine. Hope it gets nice soon.

7 August. Gave up hope of the wind ending, but didn't try to do much birding. I walked most of the lower part of the village creek. There were 1-2 Wagtails and 3-5 Longspurs but no shorebirds in the area. There are some odd aquatic plants growing in the stream, which I haven't seen anyplace else. The Lake Agassiz Museum seemed to be empty. Just poked about camp in the evening. Saw one Savannah Sparrow by the creek, so they are still here.

[illegible]
1966

Journal

8 August — Meade River, Coal Mine, 157°25' W, 70°29' N, Alaska

Wind is hopeless. Went to the census plot and the upper part of Lake Agassiz to see what was around. The area is obviously past peak flower and the grasses in the upland habitats are starting to brown. Only the latest flowers and some [illegible] still in flower. There are small groups of longspurs. On the census plot saw only 2 dunlin, 2 Willow Ptarmigan, 4-5 longspurs, plus 5 Red Phalarope + 3 longspurs + 1 Wagtail which flew over. The dunlin were both immatures, along the now empty low-center polygon pools, and the ptarmigan were adult. Saw 1 Black Belly Plover in the polygonal area South of the plot. The longspurs in winter plumage and some without tails. There were 1 or 2 Red + 1 Northern Phalarope in the lake by 1,6 post and many shorebirds in the marsh along Lake Agassiz. The edge of the lake is nearly empty, only 1-2" of water at the most, and essentially with 100% Carex cover, the plants spaced 2-4" apart. There were at least 4-6 Pectoral (1 adult, giving alarm calls, + 2 immatures), 2 adults of Long-billed Dowitchers, which acted like they had chicks (I could find them) feeding along the marshes, and 4-6 Red and at least 1?

P. DeBenedictis
1966

Journal

8 August — Meade River Coal Mine, 157°25'W, 70°37'N, Alaska

Northern Phalaropes, which looked like adults, in the pools, feeding mostly in the emergent *Carex aquatilis*. At least 4 (2 light, 2 dark) Parasitic Jaegers were in the area and I saw one catch a small *M. arctus* at the edge of the marsh. I saw one duck that looked like a ♀ Eider and at least 12 ♀ or young Pintails, all flying and in the marsh along the lake. Only 1 Arctic Tern and 2 Glaucous gulls. Saw two fully fledged Dowitchers on the way into camp and a ♀ Pectoral that acted like it had young. 4 Arctic Terns hawking up in pool by CO_2 Wannigan. Very nice but there obviously aren't many birds here.

9 August — Still very windy and somewhat overcast, clearing in the afternoon a little, then clouding up in the evening. I spent most of the day looking at 1 x 0.2 meter plots for vegetation analysis. In the A.M. I worked along Phil's transect starting at the bluff and working to the lake, making two plots at each stake, one a meter on each side (N + S). In the afternoon I made similar samples on the N + S side of each post on the census plot. Although the plots were variable, the # of species involved in all the plots was not especially large, and a few appeared in almost every plot

P. DeBenedictis
1966

Journal

9 August **Meade River Coal Mine, 157°25'W, 70°37'N, Alaska**
The dominance of vegetation was estimated at % plant cover to the nearest 5%. While doing this I noticed only 2 longspurs and 2 or 3 Pectorals, all in flight near pools. In the evening I photographed the census plot, using a marking post with black & white bands 20 cm. wide. Saw 11 Caribou.

10 August Went across the river to shoot some birds. I started at the bluff that interrupts the two flat areas there and then walked along the marshy-lake area to the Parasitic Jaeger landing, back along the lower terrace ponds, and back to opposite camp along the river. The most notable feature was the complete absence of dunlins and Semipalmated Sandpipers which had been fairly common here. When I first went into the marsh I flushed two fully fledged juvenile dowitchers, the only of this species I saw. They got down in the grass and hid so that I saw them only in flight. Pectoral Sandpipers were the most abundant species in the marsh, at least 2 dozen birds being present. I shot a ♀ that looked like it had chicks and saw one other which acted up when 2 Parasitic Jaegers landed near it. The rest all appeared to be juveniles. I collected 3 of them. They were hard to approach, and very flighty. Most landed on the very "dry" (saturated)

P. DeBenedictis
1966

Journal

10 August **Meade River Coal Mine, 157°25 W, 70°37 N, Alaska**

Carex marshes & on the sedge-grown sphagnum slopes between the marshes. They often were alone when I flushed them, and when so, they would get up calling "creeet" loudly over and over, until one or more other birds would get up and fly along with them, all of the birds calling needless loudly. These small groups usually stayed up two or 3 minutes and then landed more or less together in the marshes. They only kept their heads above the *Carex* when I was chasing them, close to the wind, and I saw none feeding. There were at least 3 dunlin young here, all seen (not feeding) on the sphagnum slopes between the marshes. They were as shy as the adults here earlier in the season. There were at least 2 Northern Phalaropes, none of which I could check for plumage, and 15-20 juvenile Red Phalaropes, usually flushed from the tall carex at the edge of pools with 2-3 inches (or more) of water in them. They would get up & fly about calling noisily like the pectorals but seldom gathered in groups. The most I saw together was 4, flushed as 4 from the ground, compared to 7 pectorals at one time, elsewhere usually two birds. There were few land birds. Only longspurs were seen in the marsh, as usual, all in winter or juvenile plumage.

P. DeBenedictis
1960

Journal

10 August Meade River Coal Mine, 157°25' W, 70°27' N, Alaska
Along the river in the willows Longspurs were scattered and conspicuous, but not flocked; there were at least 1 Savannah & 2 White-crowned Sparrows, and I noted 4 Redpolls, including 2 fledglings lacking the red cap. Wagtails (3-4) flushed from the willows occasionally; I collected one. Other birds seen were 2 Arctic Terns (in the marsh), 3-4 Glaucous gulls, 4 Red-thr. Loons (in the river) and 3-5 Parasitic Jaegers including the pair in the marsh, that acted weakly like they had young (distraction display etc.). I got a young Ermine from the village, which Duke, Guy Shepard's dog, caught on the evening of the 8th. Duit says this is not the same one he had seen at the village, being paler and smaller. It skinned nicely. 'Saw is' Ermine.

11 August I decided to walk downstream along the river to the dune area to the North, and to see what was along here. The wind has died down a little so it was almost pleasant. Near the mouth of village creek there seemed to be a loose congregation of 12± longspurs, 3 Savannah and at least 3 White-crown Sparrows with them. Along the village flats I flushed occasional lone longspurs, one Redpoll & one Wagtail from the willows. There was one Semipalmated Sandpiper (the 1st I have seen since the 4th)

P. DeBenedictis
1966

Journal

11 August Meade River Coal Mine, 157°25'W, 70°27'N, Alaska

and two juvenile Dunlin along the river on the open mud and 7 Pectorals on the village flats. Two Red-throated loons on the river. I went up on the North bluff area, but saw only a couple of longspurs here. Sabine's Gulls feeding in one of the lakes there. At the far end of the bluff there were 5 Caribou (♂♂, ♀). Beyond the North Bluff area there is an extensive mud bar, all barren, and then a narrow zone of low willows and a sandy-sedge flat much like that by the oxbow dunes. There were longspurs, 3-5 White-crowned Sparrows (Wy?), and 2 redpolls in the willows. Saw an immature Golden Eagle soaring over the area. There were two young dunlin at shallow pools near the willows here. North of this there are fairly extensive blow-out dunes with occasional pools and muddy areas on them. Around these I saw 2 pectorals, 1 dunlin, and 1 Baird's Sandpiper, and occasional lone longspurs were scattered over the dunes in general. There were a few "lakes" inland of the dunes, barren except for two "pintail" in one. I worked back fairly rapidly. On the mudflats by the village there were 3 Pectorals, 1 Semipal, and a winter-plumaged Ruddy Turnstone. Parasitic Jaegers were

P. DeBruyn Rio
1966

Journal

11 August — Meade River Coal Mine. 157°25'W, 70°28'N, Alaska

Wandered over the ~~coal~~ englacial area and I saw two Long-tails, the 1st noted in several days, near the village. The only really surprising feature was the scarcity of Ptarmigan. Found a couple of new plants even yet — the floral list for vascular plants now up to about 185 species.

12 August — Still windy but not so cold as before. In the morning I went along the Meade S to Sorsch creek and poked around there a while. Saw 2 longspurs on the way plus 3 pectoral Sandpipers flying along the Meade. Nothing at the creek, and all very quiet. In the afternoon went to get a general description of the census plot — this occupying almost all of the time. There was only 1 pectoral and 2 longspurs on it, the former near a marshy area. The plot appears to be 3 main vegetation types, *Cornicularia* — [Lichen] *Cetraria* [Lichen] association; *Eriophorum* (vaginatum) — *Carex* (consimilis) low polygons, which grade into the *Carex* Pond low polygon by a series of associations — *Carex* - *Eriophorum*; *Carex* - *Eriophorum* - *Salix reticulata* (mostly along the river bluff where the moss cover is thin; *Carex* - *Eriophorum* *Salix arbutifolia* (ends (almost equivalent to the preceding);

P. DeBenedetti
1966

Journal

12 August — Meade River Coal Mine, 157°25'W, 70°27'N, Alaska. Carex rariflora – chordorrhiza – aquatilis ponds (shallow, drying out this year); and found Carex aquatilis – rotundata – chordorrhiza ponds (these with water and only these species – the other ponds with several additional species (e.g. Juncus)). The plot is about 4% Coniacalaria, 10% River bluff, 50% Eriophorum – Carex low polygons; and 46% Carex low polygon ponds. The whole area of ridge seems to be about like this, with about that proportion of the land in the major vegetation types (River bluff is an extremely well drained version of Eriophorum – Carex low polygon). The ridges between ponds are more like the Eriophorum – Carex low polygons, but may be distinguished by several herbs growing on them – notably Rubus chamaemorus and Betula nana. I suspect the pond – polygon scene goes both ways here in terms of succession – the ponds filling with moss and going to the lower-microrelief Eriophorum – Carex polygons, and the latter's edges enlarging by ice wedging to form ponds, but it's hard to tell. Will have to see how the vegetation plots I took support

P. DeBeaulieu
1966

Journal

12 August — Meade River Coal Mine, 157° 25' W, 70° 2? N, Alaska

this. Else where in the area there are only a few other associations, which I might as well describe here. The most obvious is the "river bar" - willow zone including the mud along the river. The mud is dominated by Juncus, Carex aquatalis & membranacea, Eriophorum scheutzeri, Deschampsia, Arctophila and Equisetum. The willow zone seems to be one of Salix alaxensis along the river, giving way to S glauca, richardsonii, Carex, intricately, and finally S. pulchra inland; the whole zone is occupied by several characteristic forbs - e.g Hedysarum, Parnassia palustris, Saxifraga oppositifolia, and (? Aster sibericus). A closely related habitat is a stream side Salix pulchra association, ~~dominated by this species, and many other distinctive species~~ Carex aquatalis; Hippuris & often Potentilla palustris are common in the streams, & other aquatics. Related to this loosely are lake snowbed gullys and river ~~bluff~~ and lake ~~bluff~~ slopes, with a diversified flora dominated by forbs & bushes, and characterized by such species as Therofon richardsonii, Saxifraga rivularis, Hoydice seotinea, and (locally) Ranunculus pygmaeus. The larger deep lakes

P. De Benedictis
1966

Journal

12 August — Meade River Coal Mine, 157°25' W, 70°27' N, Alaska

Lakes are all sand bottomed; ~~and~~ where they have a shallow margin, their vegetation follows the series described for ponds + going to a *Carex aquatilis* – *Arctophila* stage to bare mud – herbs are scarce in the lakes (*Hippuris* + *Caltha* + *Ranunculus pallasii* be the main representatives). The only habitat related to *Carex*–*Eriophorum* tussocks ~~is~~ is the grass-sedge ~~[illegible]~~ community that develops around human occupations (where it is obviously long-persistent) and probably (originally) *Citellus* burrows. Related to the *Cornicularia*–*Cetraria* flats are a series of dry-vegetation ~~[illegible]~~ associations – late-snowbed ericaceous communities, where *Cassiope* + *Ledum* + *Empetrum* seem to grow best; stabilized dunes = ridge tops, are *Arenaria*, *Silene acaulis*, *Dryas* associations largely lacking graminiform vegetation; and semi-stabilized and active dunes, ~~[illegible]~~ including ~~exposed~~ the more exposed river + (lake) bluffs areas, which has a distinctive flora dominated by *Salix glauca* + [illegible] ssp. [illegible], *Elymus* ~~and~~ *Bromus*, *Festuca rubra*, and a few flowering ~~([illegible]) [illegible]~~ plants are *Polemonium boreale* + *Mertensia drummondii*.

P. De Benedictis
1966

Journal

12 August Meade River Coal Mine, 157°25' W, 70°29' N, Alaska
Where the active dunes are invading the polygonal habitats, a ~~sp~~ sandy-low polygon (very like the Salix reticulata polygons) develops, and a few plants seem to grow better in this than anywhere else – In essence the vegetation pattern seems to revolve on degree of drainage; degree of micro-topographic relief, and the persistence of snow + ice. Bird utilization does not seem to ~~re~~quire recognition of ~~each of them~~ all of these ancestors, and shorebirds ~~entirely~~ utilize only a few. The dry habitats are used by feeding Semipal Sandpipers, and for nesting by Plovers and turnstones, which appear to do much feeding in marshes and in low-polygon habitats. Dunlin and Semipals (and probably Westerns) nest almost entirely in the Eriophorum – Carex low polygons, and the latter forages here primarily as well. Pectorals, Dowitchers, and phalaropes ~~also~~ only nest in the pond-marsh area and do most of their feeding there as well, make a series in the order listed from shallow to deep water situations; in addition Semipals used the pond margins (+ river margins) extensively; and in August the

P. DeBenedictis
1966

Journal

12 August **Meade River Coal Mine, 157°25' W. 70°27'N, Alaska**

river margin seems to be a major shorebird habitat; the *Eriophorum*-*Carex* polygon being largely abandoned. As to the other birds - the gulls, terns, geese, ~~and~~, ducks and loons are all in the large ponds + lakes; jaegers were not settled enough to tell but the local parasitics were at least near marshes, + the long-tail nest was in a pond area; Arctic loons were almost strictly pond species whereas the Red-throats spent much time in the Rivers (saw Yellow-bills only in the large lakes). Not separation in the gulls, ~~Ptarmigan~~, or ducks, and geese were scarce. Yellow Wagtail + White-crowned Sparrow were strictly riverside species, the former nesting on the bluffs + the latter near the willows; Savannah Sparrow + willow Ptarmigan + Redpolls ~~Sparrows~~ were more wide spread, occurring inland where *Salix pulchra* was thick (in clumps). Longspurs were more widespread than any other species, and foraged in all habitats (probably not nesting in the dry plant associations) and seemed to nest most abundantly on the *Eriophorum*-covered dykes between the polygonal pools. They were abundant in the willow associations but nesting there was never established for these areas;

P. DeBenedictis
1966

Journal

12 August **Meade River Coal Mine, 157°25' W, 70°27' N**

The dune habitats attracted no special nesting birds - in fact were rather devoid of birds. Raptors were scarce, as might be expected in the absence of lemmings. The area is more diversified than Barrow, but much less so than Cape Thompson.

13 August Spent the day entertaining two photographers from National Geographic & helping out Art McKee, who is very short handed today. Got the word that Steve is desperate for mosquitoes. Too bad the flight is over (thank god!). I'll get them from inside the wannigan windows. Spent most of the day near the wannigans and along the thaw (Phil's) transects, and saw very few birds - a couple of pectorals by Lake Agassiz, no shorebirds on the far side of the river, and 3 ptarmigan plus scattered ~~long~~ longspurs. In the evening went to the old site of Atkasuk to see what is left - just of sod foundations rapidly sprouting grasses and _Artemesia tilesii_, and some frumentation slopes. No very exciting, but we didn't try to dig. Found a very nice _Erigeron_ (_muirii_) here. Spent a lot of time using up the film I just got on the sunset,

P. DeBenedictis
1966

Journal

13 August — Meade River Coal Mine (157°25' W, 70°37' N, Alas...
which was nice though not spectacular.

14 August — Today the wind almost stopped. I decided to celebrate by hiking, and taking the last few photos of the year — I went south along the Meade River South ridge, followed it until I hit the Meade again, along the Meade to the oxbow dunes, and cross-country to camp, about 10 miles in all, and taking from 9 am to 5 30 pm. whoosh! As usual there was little along the river — a wagtail going over and 1-2 longspurs. Near the mouth of South creek I flushed a pectoral and later 3 more from near the source in the drained lake basin where I was nearby. There were only scattered winter plumage longspurs on the ridge, except 1 golden plover and 1 Black-belly, which flew into a nearby area when I got near, and a pectoral which flushed from a Carex pool area on the ridge. No jaegers, which was surprising. A group of 8 or 9 Northern Phalaropes flew over, but did not land. When I dipped in to the lake basin to the south I occasionally ran into small (3 to 6) groups of Pectorals, which were not otherwise obvious, and heard 1 Dowitcher and one Black-belly Plover. The pectorals

P. DeBenedictis
1966

Journal

14 August — Meade River Coal Mine, 157°25' W, 70°?' N, Alaska

seemed to be mostly in the marsh and were inactive. When the route crossed the ridge I found a ♂ Arctic Loon with a 2/3 grown but all downy young and saw 2 other ♂'s in lakes here, the first good evidence of loon nesting. Beyond here I "flushed" the only adult ♀ Pectoral seen all day - it came into a marshy area when I went by and acted alarmed as if chicks were there; I saw a dark Parasitic Jaeger here, the only one seen all day. The river is mostly sandy bedded, with dune like blowouts in most areas. Nothing on the dunes but squirrels and longspurs. Inland the marshes are very sandy and only heard one Dunlin and 1 pectoral in this habitat. When I got to the muddy river flats by the willows due South of camp beyond the oxbox, I found a group of 5 Pectorals feeding along the river, and saw a Turnstone flying along the river, calling noisily. Heard Black-bellies on the far side. Two 2 day old Fox prints in the dunes here. Only longspurs and 1-2 Savannah sparrows in the willows - a strange Wag Tail like note I chased turned out to be squirrel. Found a couple of new plants (one or

DeBenedictis,
1966

Journal

14 August <u>Meade River (Coal Mine, 157°25'W, 70°27'N, Alaska</u> day still!) and got lots of scenery & flower photos here. Getting back across the marshy area set off by the oxbow I flushed 2+ Pectorals and at least 3 dunlin in a dry, former *Carex* pool area (*Rariflora* type); they were very shy and flew off rapidly to another section of the marsh. Mosquitoes not all dead yet, but they are only slightly annoying and only in the most sheltered places. Almost all the flowers Nike & I saw 3 August are now dead, only *Solidago* and some other late composites really flowering a lot. Spent the evening in camp relaxing and photographing the sunset, which was lovely again. No sleet tonight.

15 August Rainy windy until about 3PM then only windy, but almost cleared up. Stayed in camp writing notes. After dinner went to the village to look at the ice formations in the meat cellars; saw a flock of 15 Longspurs & several lone birds around the village but no shorebirds. The ice rather pretty and the ice wedges show clearly. Too bad the cellars stink so from the fish being kept in them. Found a new grass on the way back (*Calamagrostis*) and it began to snow, leaving the tundra speckled white by 9 P.M.

P. DeBenedictis
1960

Journal

Meade River Coal Mine, 157°25'W, 70°27'N, Alas

16 August The rotten weather continues. There was a quarter inch of snow on the ground at 6 A.M. rained and snowed all morning + early after noon, but warm enough so it doesn't stick. Don't feel it will be much good to go out. Spent about an hour scraping up all the old dead mosquitoes from earlier in the summer for Steve. The late afternoon was broken rain, but every time I went out my glasses fogged up so bad I couldn't see where I was going. I managed to work up the ziggy creek to the big lake, then back to CO_2 and into camp without getting to wet. There were a few lone longspurs, and 2 pectorals + 1 semi. dun. in a marshy spot by the first lake and one pectoral on the marsh around the drained lake basin by CO_2. In the evening Arch McKee and I toured the mud cellars looking at ice formation. Too bad it's so dark. A good sized (25 birds) flock of longspurs in the village. A Long-tail Jaeger spent most of the day in camp.

17 August. Phil got in about 1:30 PM from Fairbanks. The ~~afternoon~~ night it was bad and it snowed a little again but by noon it was almost pleasant enough to go out so I went to

P. DeBenedictis
1966

Journal

17 August — Meade River Coal Mine, 157°25'W, 70°27'N, Alaska

Check the birds around Lake Agassiz to see what has moved out due to weather. In a word — most everything. All of the birds were in the wet Carex marsh, out of the wind, the pectorals being farther towards shore than phalaropes. In all, I saw 5 Pectorals (1, 3, 1♀) and 3 imm. Red Phalaropes around the lake, plus 5 Pintail (one imm ♂) and 2 Arctic Terns on the lake. The nesting Parasitic Jaegers are gone, but I still haven't seen any young. No dowitchers. There was still a pectoral by the CO wannigan. Spent the evening talking with Phil.

(Margin: Can't make (T-3) record "Northern Phalaropes" today.)

18 August — Went down along the village flats area to try and photograph some birds. It was a failure from the start because Guy Shepard's dog, Duke, decided it would be fun to follow me. Besides there were not any birds to photograph. I walked along the river and went in by the small lakes but saw nothing inland except 2 longspurs. There were a couple of Savannah Sparrows in the willows along the River, and half a dozen longspurs, 1 Wagtail. Along the River on the mud I saw 1 longspur + 2 imm.

DeBenedictis
1966

Journal

18 August Meade River Coal Mine, 157°25'W, 70°27'N, Has dunlin, which are feeding actively the sampals, pecking, & jabbing shallowly at the water's edge. One tern fishing along the river. Five Parasitic Jaegers flew over. On the way back saw 2 Pectorals and a dunlin at the mouth of village creek. A large group of glaucous gulls spent most of the day on the mudflat opposite the coal mine. They kept fussing over the willows as if they were getting something to eat there, but I never saw a capture. When they strayed from the area, a pair of Parasitic jaegers would attack them violently, and at least once they grounded a gull temporarily. Later in the day the jaegers roosted at the edge of the gull flock. In the evening Art and I went tramping across the river + ~~down~~ downstream (N) to the 1st flowerest area. Saw 2 pectorals in the marsh across the river and heard a dunlin across the river. We had a real nice sunset again for a change, but it's really getting dark now. Got weather data from Phil Johnson.

DeBenedictis
1968

Journal

19 Aug Meade River Coal Mine, 157°25'W, 70°27'N, Alaska

The morning spent along the river by camp polking around. A group of 3-4 ~~golden~~ pectorals and ^about 7^ 8-10 golden plovers flew over. One dunlin. I decided to check lake Agassiz, with good results. In the section by Cl_2 there was 1 phalarope, a group of 9 and 3+ lone pectorals, mostly restless and flying over + from the marshy areas. Those I saw rested were one dight between polygons + not feeding. Around lake Agassiz proper there were 3 Arctic loons + 5 pintail in the lake; 3 lone juv. Red Phalaropes in the distant marshy section, and a group of 7, a group of 4, and about half a dozen lone pectorals, probably some from the other part of the lake, in the marshy area around the edge, along with at least 1 dunlin. An arctic tern feeding over the lake. Saw a Pomarine Jaeger fly over, the 1st in a long time. I went up over the ridge back where the Pacific's nested (they are gone now) and here found a loose group of 6-7 pectoral, 1? Baird, + 2 Dunlin which I saw only in flight, but which seemed to come from marshy polygons

P. DeBenedictis
1966

Journal

19 August Meade River Coal Mine, 157°25' W, 70°27' N, Alaska

and 3 ~~juv.~~ imm. plumaged. Golden plovers ~~were~~ were over. Only one Pectoral seen was an adult. I then cut over to the big lake W of Lake Agassiz & poked around the marshes here, finding 3 pectorals & 1 imm. L-B. Dowitcher, and a Western Sandpiper. 3 terns but no loons in the lake. From here went to the drained lake basin south of South Ridge and followed the ridge back to camp. Heard a Black-belly plover and flushed 9 or 10 pectorals from a small marshy area. Not much else around. Nothing along the river, but 3-4 pectorals & 1-2 dunlin flew over. When the birds get out in the marshes I can't see them because the Carex is so high and everything seems to be feeding in the marshes. Continuing to get weather data from Phil Johnson. Didn't get out in the evening. Almost no wind, but its cool and overcast, almost rainy.

20 August Worked along village creek & the part of lake Agassiz by CO₂ in the A.M trying to take a few photos of late flowers, but no enough light. Calm

P. DeBenedictis
1966

Journal

20 August Meade River Coal Mine, 157°25'W, 70°27'N, Alaska
but overcast. A group of about 15
winter plumaged Golden plovers flew
over the creek mouth area, calling,
a little, and there were 2 pectoral
and a dunlin along the mud; they
flew off when I approached. Nothing
along the creek but white-crowns
+ Savannah Sparrows still here.
Small groups of Longspurs. In
the part of Lake dogs ~~[illegible]~~ by CO_2 there were
6-7 pectorals, a NB Dowitcher, and
a dunlin playing about but not
landing. In the afternoon went
along the River S to the dunes,
then inland over the pool tundra
in the oxbow area, and back to
camp. 10 Caribou on South
Ridge about 1 PM., dissappearing to
the NW. Nothing along the river +
on the dunes except scattered Longspurs.
Inland on the marshy tundra there
were two golden plovers feeding on
a upland Dryas ridge and at least
2 dunlin and 5 pectorals, all scattered
in the marshes. Only 1-2 Jaegers and
a few gulls here now. Most of the [illegible]
seem to be closer to camp and migration

P. DeBenedictis
1966

Journal

Alaska

20 August Meade River Coal Mine, 157°25'W, 70°27'N

seems well enclosed. Found a new grass today, so I guess there is still a little to find here. Spent the evening going over the plant list with Phil.

21 August. Am spent continuing plant list and making up the enclosed list of plant communities, which seems to be complete (plant list with this) ~~is to be appended elsewhere, prob. incomplete~~.

Saw a flock 15-20 pectoral pipers along the river & another about the same size from ~~[illegible]~~ Lake Agassiz, which I checked in the afternoon.

DAILY LIST —
MEADE RIVER

MAY

21	22	23	24	25	26	27	28	29	30	31	
											OON, Yellow-billed
											[illegible], Arctic
											RED-THROATED
											species.
											SWAN, WHISTLING
										/200	BRANT, BLACK
		3								/5	GOOSE, SNOW
25±			15	6	6 6	14/4	10/15	10	15/6	6/10	WHITE-FRONT
										7?/1?	PINTAIL
										20±/	SCAUP, GREATER
											OLDSQUAW
											EIDER, SPECTACLED
											KING
											STELLER'S
											sp.
											MERGANSER, RED-BR.
											FALCON, PEREGRINE
											EAGLE, GOLDEN
											HAWK, ROUGH-LEG
+	75±	50±	20	57	3	25/15	10/7/15		10/4	3/4	PTARMIGAN, WILLOW
									8/3	12/6	PLOVER, GOLDEN
									1/	1/	BLACK-BELLIED
						1/3		5	4/	4±/2	TURNSTONE, RUDDY

ME A-2

DAILY LISTS

MEADE RIVER

JUNE

1	2	3	4	5	6	7	8	9	10	11	12	
				1	1		1/1	1/	2		1/	OON, Yellow-billed
							2/	2/3	6	4	3/2	~~[illegible]~~, Arctic
							2/	2/2	12	10	/1	RED-THROATED
				1			/2	1/1	2	6	4/3	species.
	2/											WAN, WHISTLING
				20/					2			BRANT, BLACK
												OOSE, SNOW
	15/6	3/10	6	10/6	6	10	6/6	4/2	6	4	3/1	WHITE-FRONT
1	8/33/27	7/	3	7/5	7	8	8/4	8/8	15	10	10/2	PINTAIL
				2/								SCAUP, GREATER
				15/5	6	6	6/2	12/15	35	20	6/2	OLDSQUAW
				1♂/♀		♂/♀		16	25			EIDER, SPECTACLED
							♂/♀		8			KING
									6			STELLER'S
				/? King 8								sp.
												MERGANSER, RED-BR.
	/1											FALCON, PEREGRINE
												EAGLE, GOLDEN
									1			HAWK, ROUGH-LEG
4	6/8	6/8	4	8/6	4	8	5/4	6	8	8	Nest/ 6/4	PTARMIGAN, WILLOW
15	10/8	4/2	6	10/6	6	8	4/3	6/4	6	2	2/4	PLOVER, GOLDEN
6	4/1	2/2*	2	10/2	4	8	2/4	4/2	4	2	2/2	BLACK-BELLIED
~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~		~~[illegible]~~						
5	8/	8/1	6	6/6	4	8	2/6	6/1	10	4		TURNSTONE, RUDDY

A-3

DAILY LISTS
MEADE RIVER EXCEPT AS INDICATED

13	14 MR/BAR	15 BAR	16 BAR/MR	17	18	19	20	21	22	23	
			/2								LOON, Yellow-billed
4/2	2/2	3	3/6	8	4	2/2	3	5	2	8	Arctic
4/2	1/	2	1/12	4	17	1/1	1	2	1	4	RED-THROATED
2	1/			4	35	3	4	3		2	species.
											SWAN, WHISTLING
											BRANT, BLACK
											GOOSE, SNOW
3	2/		/1	1	2	3		1		2	WHITE-FRONT
10/4	10/2	10	6/16	12	5	3/15	3	2	1	8	PINTAIL
				2							SCAUP, GREATER
8/4	6/4	8	6/10	10	6	6/14	4		4	10	OLDSQUAW
		2						♂			EIDER, SPECTACLED
			18	2						Nest 5	KING
		2									STELLER'S
											sp.
♂											MERGANSER, RED-BR.
											FALCON, PEREGRINE
											EAGLE, GOLDEN
											HAWK, ROUGH-LEG
4/1	6/		12	2	3	5/3	Nest 6	6	2	6	PTARMIGAN, WILLOW
4/2	2/2	2	2/14	3	2	N 2/4	2	4	1	3	PLOVER, GOLDEN
2			14	4	1	1/2	2	4	1	3	BLACK-BELLIED
6	2/3	6	10/2	1	1		1				TURNSTONE, RUDDY

A-4

DAILY LISTS
MEADE RIVER

JUNE 25	26	27	28	29	30	JULY 1	2	3	4	5	6	
				1								LOON, Yellow-billed
3	2	1	2	2	5	2		2	3	4		~~Loon~~, Arctic
4	1	2	1		2	1		2		8		"RED-THROATED
2			2	1					2			species.
												SWAN, WHISTLING
												BRANT, BLACK
												GOOSE, SNOW
2	2		1	NEST 11	3	5		1	3	2		WHITE-FRONT
NEST 6	3	3	3	5	4	6		4	NEST 10	4	1	PINTAIL
		♀		♂		1						SCAUP, GREATER
10	2	4	6	6	4	4		1	6	4		OLDSQUAW
										NEST 1		EIDER, SPECTACLED
					♀	3	1♂					KING
												STELLER'S
												sp.
1				♂♀								MERGANSER, RED-BR.
												FALCON, PEREGRINE
												EAGLE, GOLDEN
												HAWK, ROUGH-LEG
4	1	3	2	4	3	NEST 3		1	2	4		PTARMIGAN, WILLOW
	3	1	3	3	3	3		3	4	1	3	PLOVER, GOLDEN
2	2	[NEST] 4	2	4	NEST 4	~~2~~		1	3	4		BLACK-BELLIED
	1	NEST 2			[NEST] 2				3	3		TURNSTONE, RUDDY

RAINED IN 24 JUNE

RAINED (July 2)

A-8

DAILY LISTS

JULY

7	8	9	10	11	12	13	14	15	16	17	
											LOON, Yellow-billed
1	2	1	1	3		3	2				~~LOON~~, Arctic
2	4			2		4	3	=			RED-THROATED
											species.
											SWAN, WHISTLING
											BRANT, BLACK
											GOOSE, SNOW
	1			1							WHITE-FRONT
1	4	1		2		2					PINTAIL
											SCAUP, GREATER
2	4	1	1	10	RAIN	1	1	[illegible] 3			OLDSQUAW
					RAIN			[illegible] [illegible]			EIDER, SPECTACLED
											KING
					RAIN						STELLER'S
											sp.
											MERGANSER, RED-BR.
											FALCON, PEREGRINE
								1			EAGLE, GOLDEN
											HAWK, ROUGH-LEG
1	2			3 +7 chicks				2			PTARMIGAN, WILLOW
1	3	3	1	6 +2 chicks		4					PLOVER, GOLDEN
	3			3		2 +[illegible] chicks	4	4			BLACK-BELLIED
	2			3		1		1			TURNSTONE, RUDDY

B-1

DAILY LISTS

MEADE RIVER

MAY

21	22	23	24	25	26	27	28	29	30	31	DATE
	3						/3	25	1/	1/3	SANDPIPER, PECTORAL
											BAIRD'S
	3+						~~/3~~	~~25~~	~~1/~~	2/2	RED-BACKED
	10								2/6	4/3	SEMIPALMATED
								1			WESTERN
	2								3/	1+/3	DOWITCHER, L.B.
										/1	GODWIT, BAR-TAILED
	3									/7	PHALAROPE, RED
											NORTHERN
											JAEGER, POMARINE
	2									1/7 sp.	PARASITIC
	2										LONG-TAILED
	4	4-5	3	18	6±	1/16	7+/4	6±	8/3	20+/4	GULL, GLAUCOUS
										1/	MEW
	1									1/	SABINE'S
											HERRING
	6										TERN, ARCTIC
				1							OWL, SNOWY
										1/1	SHORT-EARED

SANDERLING

KNOT

SANDPIPER, WHITE-RUMPED

DAILY LISTS

MEADE RIVER

JUNE

1	2	3	4	5	6	7	8	9	10	11	12	DATE
1+	10/10	10/3	4	25/15	20	25	3/8	10/8	12	15	6/5	SANDPIPER, PECTORAL
	2/											BAIRD'S
25+	20/10	10/15	10	16/8	12	16	5/10	10/6	10	6	4/3	RED-BACKED
2	3+/2	4/4+	4	12/10	8	10	4/15	14/6	15	8	8/8	SEMIPALMATED
	1/		2	1/3	5	3+	/2	1/	2	1	5/	WESTERN
	8/3	8/		3+/2	6	6	1/9	10/3	8	10	6/1	DOWITCHER, L.B.
	[illegible]			[illegible]	[illegible]							GODWIT, BAR-TAILED
	4+/2+	[illegible]	2+	10/4	10	3	3/5	10/50	25	50	30/10	PHALAROPE, RED
		8/	3+	10/5	8	1	3/	2/10	10	10	10/1	NORTHERN
				4/6			1/3	1/	1	2	1/	JAEGER, POMARINE
2	2/4	2/2	2	6/2	5	3	3+/8	4/2	4	3	2/1	PARASITIC
1	2/2	1+/1+		10/6	15	15	4+/8	6/2	6	4	4/	LONG-TAILED
10	15/10	8/15	5	15/30	50	50	10/50	10/8	25	10	6/2	GULL, GLAUCOUS
	[illegible]		[illegible]	[illegible]	[illegible]							MEW
	/1		2	4/5	15	5	4/8	/25	10	8	8/	SABINE'S
		[illegible]		[illegible]	[illegible]							HERRING
		1+/	1	1/	5	3	/10	10/10	15	10	5/4	TERN, ARCTIC
												OWL, SNOWY
				1/								SHORT-EARED
												SANDERLING
												KNOT
												SANDPIPER, WHITE-RUMPED

B-3

DAILY LISTS

MEADE R.
EXCEPT AS MARKED

	MR/BAR	~~BAR~~/BAR	BAR/MR								
13	14	15	15	17	18	19	20	21	22	23	DATE
8/1	3/	3	9/10	14	6	N 4/4	6	3	3	6	SANDPIPER, PECTORAL
	/8	15	1/								BAIRD'S
8/1	2/4	10	10/10	8	3	+ 2/2 +	5	3		2	RED-BACKED
15/3	4/20	[illegible]	6/15	20	10	3N 6/4	6	Nest 8	1	10	SEMIPALMATED
/1			/4 +	5	1	1/		1			WESTERN
6/1	2/		1/4	6	3	2/3	2	2	1	8	DOWITCHER, L.B.
											GODWIT, BAR-TAILED
10/2	10/2	25	15/10	15	10	Nest 12/8	4	2 Nest 2	3	10	PHALAROPE, RED
4	2/	1	1/2	3	2	2/			1	6	NORTHERN
1											JAEGER, POMARINE
4/4	7/1	2	1/2 N.	5	4	2/1	2	2	3	2	PARASITIC
4/2	1/	1	1/4	2	6	2/1	4	2	1	1	LONG-TAILED
10/6	6/3	10	6/10	10	10	6/3	3	6	4	6	GULL, GLAUCOUS
											MEW
8/8	4/1		/10	8	3	2/1	2	4	7	5	SABINE'S
				1							HERRING
10/6	6/		/15	12	10	3/4	6	8	2	10	TERN, ARCTIC
											OWL, SNOWY
											SHORT-EARED
	3	3									SANDERLING
		5									KNOT
			2/								SANDPIPER, WHITE-RUMPED

J. R. Benedict
1960

DAILY LISTS
MEADE RIVER

RAINED IN 24 JUNE

RAINED IN (July 2)

June 25	26	27	28	29	30	July 1	2	3	4	5	6	DATE
6	3	3	NEST 4	6	15	6		9	10	6	3±	SANDPIPER, PECTORAL
												BAIRD'S
2±	3±	4	6±	6	5±	2		4	14	2	5	RED-BACKED
NEST 25	10	NEST 10	10	6	20	6		10	20	45	8 +8 chicks	SEMIPALMATED
1			1	3	1				2			WESTERN
4±	2	1	1	3±	3	3		1	4	4	1	DOWITCHER, L.B.
												GODWIT, BAR-TAILED
15	3	6	8	20	10	4		3	10	10	2 +4 chick	PHALAROPE, RED
20		4	15	6	3	1			15	5		NORTHERN
												JAEGER, POMARINE
3	2	2	3	4	3	4		2	2	NEST 2	1	PARASITIC
2	2	1	2	4	2	2		1	NEST 2	1	1	LONG-TAILED
10	6	6	8	3	25	6		3	6	10	1	GULL, GLAUCOUS
												MEW
1	1	6	4	6	10	4		2	10	4	1	SABINE'S
								1	~~30~~			HERRING
4	6	3	10	10	30	6		4	30	10	3	TERN, ARCTIC
												OWL, SNOWY
												SHORT-EARED
												SANDERLING
												KNOT
												SANDPIPER, WHITE-RUMPED

DAILY LISTS

B-5

JULY

DATE	7	8	9	10	11	12	13	14	15
SANDPIPER, PECTORAL	5	6	+1 chick 2	1	8		1	+2 chicks 3♀	+3 chicks 2♀
BAIRD'S									
RED-BACKED	1	6	2	3	6		2		
SEMIPALMATED	4	25	4	4	20		3	+1 chick 10	+3 chick 10
WESTERN		2			+3 chick 3				
DOWITCHER, L.B.	1	3	1	1	2	RAIN			1
GODWIT, BAR-TAILED									
PHALAROPE, RED	1	8		3	8		8	10	8
NORTHERN				1	2	RAIN	6	10	10
JAEGER, POMARINE									
PARASITIC	2	2	1	1	3+		5	2	1
LONG-TAILED	1	1	2	1	2	RAIN	1		1
GULL, GLAUCOUS	2	2	2	3	4		3	3	3
MEW									
SABINE'S	1	8		1	5		6		–
HERRING									
TERN, ARCTIC	3	6	3	3	6		6	5	4
OWL, SNOWY									
SHORT-EARED									
SANDERLING									
KNOT									
SANDPIPER, WHITE-RUMPED									

DAILY LISTS C-1

MEADE RIVER

MAY

21	22	23	24	25	26	27	28	29	30	31	
										/1	ROBIN
found 1 dead											WHEATEAR
								3-5	3/1	3/1	YELLOW WAGTAIL
							1		1/	/1	WATER PIPIT
											WARBLER, MYRTLE
										1/	BLACKPOLL
											BLACKBIRD, RUSTY
							1			2+/1+	REDPOLL, HOARY
							3/1	1	4/1	2/1	SPARROW, SAVANNAH
											TREE
									2/	2/1	WHITE-[illegible]
											F[illegible]
											JUNCO, SLATE-[illegible]
		song 1				15+/9	15/6	25	50/50	30/50	LONGSPUR, LAPLAND
			1		1	5+/	/1	3+	2/	3/	BUNTING, SNOW
											WARBLER, ORANGE-CROWN

DAILY LISTS
MEADE RIVER

JUNE

1	2	3	4	5	6	7	8	9	10	11	12	
												ROBIN
												WHEATEAR
1	2?/2?	2+/1	5	8/3	3	3+	4+/4	4/2	Nest 8	8	4/2	YELLOW WAGTAIL
												WATER PIPIT
				1/								WARBLER, MYRTLE
												BLACKPOLL
	~~2/3~~			~~3+/1~~								BLACKBIRD, RUSTY
1+	2/3	3/4	1	3+/1	1				1+		1/	REDPOLL, HOARY
1	8/	3/	3	6/5	5	4	2+/1	3/1	3	4/	2/1	SPARROW, SAVANNAH
	1/											TREE
	4/1	1/	2	3/2	1+				1	1	1/1	WHITE-CROWN
			1	1/								FOX
		1/	1	1/								JUNCO, SLATE-COLORED
35+	75/35	30/45	35	50/25	35	55	25/25	40/25	50	Nest 80	60/20	LONGSPUR, LAPLAND
2+	3/	1/	2	3/2	2		/2	2/	2			BUNTING, SNOW
											1/	WARBLER, ORANGE-CROWN

DAILY LISTS
MEADE RIVE EXCEPT AS MARKED.

Species	13	14 MR/BAR	15 BAR	16 BAR/MR	17	18	19	20	21	22	23
ROBIN											
WHEATEAR											
YELLOW WAGTAIL	2/4	4/		/4	8	6	6+/3	6	Nest 8	5	4
WATER PIPIT				/							
WARBLER, MYRTLE											
BLACKPOLL											
BLACKBIRD, RUSTY											
REDPOLL, HOARY	/1	2/			3	1	2/	3	3+		
SPARROW, SAVANNAH	8/1	2/		/1	8	4	2/1	4	5	1	6
TREE											
WHITE-CROWN	1/1	2/		/2	3	1	2/	2	Nest 5	1	/
FOX											
JUNCO, SLATE-COLOR											
LONGSPUR, LAPLAND	55/10	50/[illegible]	75	N /35	Nest 25	2Nest 25	20/20	2Nest 50	3Nest 20	6	10
BUNTING, SNOW	2	/2	25	6/	1	1		1			
WARBLER, ORANGE-CROWN											

DAILY LISTS
MEADE RIVER

RAINED IN 24 JUNE

	JUNE 25	26	27	28	29	30	JULY 1	2	3	4	5	6
ROBIN												
WHEATEAR												
YELLOW WAGTAIL	2	6	1	5	1	2	4		5	6	5	4
WATER PIPIT												
WARBLER, MYRTLE												
BLACKPOLL												
BLACKBIRD, RUSTY								RAINED IN				
REDPOLL, HOARY	6	4	3	8	3	3	6+		2	4	6	1
SPARROW, SAVANNAH	NEST 4	NEST 3	4	4		2	4		2	4	4	2
TREE												
WHITE-CROWN	1	2	1	3		2	1		1	2	1	1
FOX												
JUNCO, SLATE-[illegible]												
LONGSPUR, LAPLAND	20	NEST 30	20	NEST 30	55	20	25		20	50	35	20
BUNTING, SNOW							1					
WARBLER, ORANGE-CROWN												

5-5

DAILY LISTS

7	8	9	10	11	12	13	14	15	16	17	JULY
											ROBIN
											WHEATEAR
2	4	+2 fledgl. 6	5	+5 fledg 8		6	1	1			YELLOW WAGTAIL
											WATER PIPIT
											WARBLER, MYRTLE
					RAIN						BLACKPOLL
											BLACKBIRD, RUSTY
3	2	5	3	6	RAIN	2	2	1			REDPOLL, HOARY
1	3	3	1	3		7	1	1			SPARROW, SAVANNAH
											TREE
1	2	3		3	RAIN	1		1			WHITE-CROWN
											FOX
											JUNCO, SLATE-COL.
30	+1 fledg 25	+1 fledg 35	+6 fl. 25	+3 fl 30		+4 f 15	+5 f 20	+3 f 25			LONGSPUR, LAPLAND
											BUNTING, SNOW
											WARBLER, ORANGE-CROWN

P. DeBenedictis
1966

Habitats + Plant associations
Meade River - 1

I RIVER BARS

1. Open bar + pioneer community
2. Riparian Willow
   a) Salix alexensis (River side)
   b) Salix richardsonii - glauca (inland side)
3. River bar tundra - Salix pulchra + inland tundra (usu. wet) types

II ~~River~~ CUT BANK + BLUFFS

1. Bluff (top)
   a) turfy - Therolax/Luzula/S. reticulata
   b) sandy - Dryas/Salix glauca/Arctostaphylos
2. Slump slope
   a) wet - Oxyria digyna
   b) dry (late) - (dune type habitat) Arabis, Draba
3. Snow bed Gullies - Ranunculus pygmaeus, Saxafraga rivularis

III DUNES (and ~~+ Large~~ Blow outs)

1) Stabalized (ridge habitat) - Arenaria / Silene / Dryas / Kobresia
2) Semi-stabilized (with small - medium blowouts) - Anemone drummondi / Rumex graminifolia / Eritrichium
3 Active ~~Stabilized~~ - Elymus / Polemonium boreale / Salix niphoclada / Mertensia / ~~Artemesia~~ ~~Armeria~~ glomerata, Senecio hyperboreali

P. DeBenedictis
1966

Habitats + Plant Associations
Meade River 2

IV STREAMS

1. ~~Stream side~~ Flood plain ~~level~~
   a) level – Carex aquatalis / Potentilla palustris / Saxifraga cernua
   b) sloping – Salix rotundifolia / Carex lachenalli + Carex podocarpa
2) Stream side – Salix pulchra / Betula
3) Aquatic – Carex aquatalis / Hippurus / ~~Po~~ (Potamogeton vaginatus) / Arctophila

V LAKES + PONDS

(wet to dry — greater to lesser microtopographic relief)

1. Lakes – open water > 1 m. deep
2. Arctophila zone – 1/3 – 1 m HOW
3. Carex Aquatalis zone – 1/4 – 1/2 m HOW
4. Carex aquatalis / Ranunculus pallasii zone 0.1 to 0.5+ m. HOW
5) Carex rotundata zone – with Carex aquatalis ~~often polygonal~~ + Carex chordorrhiza (rarely dries)
6) Carex rariflora zone – very shallow, often drying – with Carex chordorrhiza, Juncus biglumis + albescens, Luzula wahlenbergii, aquatic dicots (esp. Pedicularis sudetica + Saxa. hirculus
7) Sphagnum dykes + mounds (in drained
   a) lake basins) – sphagnum – Carex aquatalis, Saxifraga foliolosa, Salix pulchra, + arbutifolia etc.
   b) higher mounds – polygons – Rubus / Salix arbutifolia

P. DeBenedictis
1966

HABITATS + PLANT ASSOCIATIONS
Meade River - 3

decreasing wet

8.) Pond margins
a) Sphagnum / Pedicularis lapponica / Rubus
b) Salix pulchra
c) Eriophorum vaginatum / Carex consimilis
Betula

microtopographic relief to dry

VI Low-center polygons + Ridges (moist tundra
1) Salix pulchra type
2) Salix reticulata type (Dryas present)
3) Carex consimilis type (no Er. vaginatum)
4) Eriophorum vaginatum / Carex consimilis type (very low relief) — Er. vaginatum predominates nearly to exclusion of Carex on ridges).
5) wet sandy flats (weak polygonization)
Salix arctica / Kobresia / Dryas / Equisetum variegatum (Salix reticulata
This habitat merges with any of above as ~~was~~ peat accumulates

VII Polygon Trough
~~Muddy~~ 1) Muddy - bare or Ranunculus gmelini
2) ~~Peat~~ - Carex aquatilis / Eriophorum angustifolium
3) wet mossy - Cardamine pratense / Chrysosplenium
4) mossy (temp. H_2O) - sphagnum, mosses, liverworts, pond type plants.

P. DeBenedictis
1966

Habitats & Plant association
Meade River - 4

VIII Misc. upland

1) Lichen barren
   a) peaty high centered polygon
   b) Cornicularia - Cetraria

2) Ericaceous - Dryas / Empetrum / Salix phlebophylla / Betula

3) Snowbed - Cassiope / Cetraria nivalis / Vaccinium uliginosum

IX DISTURBED SITES

1) wet
   a) Airstrip ditch / Eriophorum angustifolium / Carex aquatilis / Equisetum
   b) Village slope - grassy - Alopecurus
   c) Peat mine ponds - algae
   d) carcasses

2) Dry
   a) Squirrel Burrows - grasses, (Trisetum)
   b) Abandoned dwellings (foundations + excavations) -
      ') drier - Carex obtusulata, Hierochloe alpina
      '') moist - Alopecurus / Artemisia tilesii / Poa alpigena / Senecio congestus
   c) Air strip - grasses (Phippsia) -
   d) Coal mine ~~strip~~ pit - grasses, Draba

P. DeBenedictis
1966

Plant list
Meade River

Lycopodium selago
Equisetum arvense
palustre
variegatum
scirpoides
Potamogeton filiformis
vaginatus
Bromus pumpellianus
Festuca brachyphylla
rubra
?altaica
?baffenensis *
Puccinellia ?borealis
Arctophyla fulva
Dupontia fischeri
Poa arctica
alpina
glauca
?lanata
alpigenea
Koeleria asiatica
Trisetum spicatum
Calamagrostis neglecta
?canadensis *
?purpurescensis
Deschampsia caespitosa
Arctagrostis latifolia

Phippsia algida
Alopecurus alpinus
Elymus mollis
Hierchloe alpina
pauciflora
Eriophorum angustifolium
vaginatum
scheutzeri
Kobresia myosuroides
Carex scirpoidea
obtusalata
aquatalis
chordorrhiza
physocarpa
maratima
rariflora
podocarpa
?lachenalii
rotundata
neurochlaena
?misandra
membranacea
?krausei
(biglowii) consimilis
nardina
capitata

P. DeBenedictis
1966

Plant list
Meade River - 2

	Koenigia islandica *
Juncus biglumis	Polygonum bistorta
castaneus	viviparum
balticus	Stellaria laeta (sensu lato)
albescens	crassifolia *
Luzula nivalis	Cerastium beeringianum
confusa	Sagina intermedia
wahlenbergii	Merckia physodes
Tofieldia coccinea	Arenaria rubella
pusilla	obtusiloba
Lloydia serotina	arctica
Salix richardsonii	rossii
arbutifolia	Silene acaulis
alaxensis	Melandrium ostenfeldii
glauca	apetalum
pulchra	Caltha palustris
reticulata	Delphinium brachycentrum
phlebophylla	Anemone parviflora
arctica	drummondii
farrae ssp. walpolei	richardsonii
brachycarpa ssp. niphoclada	Aconitum delphinifolium
rotundifolia	Ranunculus nivalis
pseudopolaris	pedatifidus
? glacialis	pallasii
Betula glandulosa	pygmaeus
Rumex graminifolia	lapponicus
arcticus	gmelinii
Oxyria digyna	sulphureus *

P. DeBenedictis
1966

Plant list
Meade River -- 3

Papaver radicatum
macounii
?alboroseum
Cochlearia officinalis
Descurainia sophioides
Cardamine digitata
pratensis
Draba pilosa
borealis
cinerea
longipes
glabella
lactea
nivalis
Arabis lyrata
Braya purpurescens
Parrya nudicaulis
Therofon richardsonii
Saxifraga oppositifolia
cernua
foliolosa
bronchialis
nivularis
caespitosa
punctata
hieracifolia
nivalis
Saxifraga flagellaris
hirculus
Chrysosplenium tetrandrum
Parnassia kotzebuei
palustris
Rubus chamaemorus
Potentilla palustris
hyparctica
nivea ssp. hookeriana
?ledebouriana
Dryas integrifolia
Lupinus arcticus
Astragalus alpinus
umbellatus
Oxytropis nigrescens
Hedysarum alpinum
Empetrum nigrum
Epilobium latifolium
anagallidifolium
Hippuris vulgaris
Bupleurum americanum
Conioselinum cnidiifolium
Pyrola grandiflora
Ledum palustre
Cassiope tetragona
Andromeda poliifolia
Arctostaphylos alpina

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Plant list
Meade River - *

Vaccinium vitis-idaea
  uliginosum
Diapensia lapponica
Androsace septentrionalis
  chamaejasme
Dodecatheon frigidum
Primula egalikensis
Armeria maratima
Polemonium (acutiflorum) caerulum
  boreale
Gentiana propinqua
Eritrichium aretioides
Mertensia drummondii
Lagotis glauca
Castelleja pallida
Pedicularis langsdorfii
  sudetica
  capitata
  lanata
  lapponica
  verticellata
Campanula uniflora
  lasiocarpa
Valeriana capitata
? Aster sibericus
Erigeron humilis
  uniflorus

Erigeron ? hyperborealis
  ? grandiflorus
  ? muirii
Antennaria ? subcanescens
  ekmaniana ?
  ? compacta
  ? angustata
Achillaea borealis
Chrysanthemum (Tanacetum) bipinnatum
  integrifolium
Artemesia tilesii
  borealis
  glomerata
  arctica
Petasites frigidus
Solidago multiradiata
Senecio hyperborealis
  congestus
  atropurpureus
  lugens
Arnica alpina
  lessingii
Saussurea angustifolia
Taraxicum ceratophorum
  ? lyratum

*reported by other persons, not collected 1966

P. DeBenedetti
1965

Climatic data
Standard shelter in camp

Temp °C

June

DATE	MIN	MAX	Mean	PERCPT. ~~RAIN~~ 4" fencepost in inches
1	—	—	—	
2	—	5.5	—	—
3	-10.0	1.0	-5.5	—
4	-4.7	2.0	-1.4	—
5	-5.4	3.2	-1.1	—
6	-3.5	1.9	-0.8	.01
7	-3.8	-2.0	-2.9	↓
8	-6.1	-2.1	-4.1	.11
9	-4.8	0.3	-2.3	
10	-3.2	—	—	
11	—	5.7	—	.11
12	-3.0	7.7	2.4	.20
13	-0.5	14.8	7.2	
14	2.0	17.2	9.6	
15	-3.0	4.2	0.6	.12
16	-0.4	10.0	4.8	.005
17	0.6	10.6	5.6	
18	-0.1	8.0	4.0	
19	-0.5	7.8	3.7	
20	0.6	12.2	6.4	
21	2.2	18.3	10.3	
22	1.2	8.3	4.8	T
23	-4.5	5.2	0.4	
24	1.0	5.9	3.5	.15
25	-3.7	1.9	2.8	.22
26	-1.7	3.0	1.2	
27	-1.0	14.7	6.9	

DATE	MIN	MAX	$\bar{x}$	~~Percp~~
28	4.9	12.9		8.9
29	8.7	16.0		12.4
30	6.5	14.1		10.3
MONTH	-1.2 (-10.0 to 8.7)	7.7 (-2.1 to 17.2)		3.4 (-5.5 to 12.4)

PERCPT.

DATE	
28	T
29	.16
30	

MONTH (6 to 30 June)
TOTAL 1.09
(No percpt. 21 MAY to 5 June)

P. DeBenedetti
1966

Climatic data

WIND DATA (2 METERS)

JUNE

	MPH SPEED	X DIRECTION		MPH SPEED	X DIRECTION
1	8	90	16	3	83
2	5	177	17	6	82
3	6	248	18	7	250
4	7	68	19	3	246
5	2	210	20	7	135
6	7	34	21	7	167
7	15	68	22	7	294
8	7	70	23	12	224
9	9	90	24	11	274
10	3	101	25	8	280
11	3	131	26	6	275
12	4	234	27	4	229
13	4	353	28	3	147
14	3	240	29	5	168
15	2	236	30	2	208

P. DeBenedetti
1966

Climatic data

~~Monthly~~ Standard shelter in cave

July

4" fence post

DATE	MIN	MAX	$\bar{x}$	PERCPT.(")
1	1.9	5.6	3.8	.03
2	-2.1	-1.0	-1.5	
3	-2.0	4.1	1.1	.30
4	1.8	11.9	6.9	.01
5	3.3	11.7	7.5	
6	6.2	9.3	7.8	.09
7	5.[illegible]	10.9	8.0	
8	5.0	13.9	9.5	
9	7.1	9.9	8.5	
10	1.0	10.8	5.9	.02
11	7.4	13.2	10.3	.04
12	5.2	7.8	6.5	[illegible]
13	6.9	13.7	10.3	.29
14	7.8	8.3	8.1	T
15	6.1	16.8	11.5	
16	9.0	12.1	10.6	.05
17	5.9	7.9	6.9	.02
18	1.8	3.0	2.4	.02
19	1.7	11.9	6.8	
20	7.8	9.9	8.8	.04
21	5.2	13.0	9.1	.05
22	2.3	10.0	6.2	T
23	3.0	3.8	3.4	.04
24	3.2	11.3	7.3	
25	5.0	9.5	7.3	
26	0.8	7.1	4.0	T
27	1.3	8.7	5.0	

DATE	MIN	MAX	$\bar{x}$
28	0.7	11.2	6.0
29	3.0	6.2	4.6
30	1.1	3.9	2.5
31	2.9	13.4	–
MONTH	3.7	9.3	6.6
	(-2.1 to 9.0)	(-1.0 to 16.8)	(-1.5 to 10.3)

PERCPT.

DATE	
28	
29	
30	.02
31	.02
TOTAL	1.04

P. DeBaudack(?)
1966

Climatic data
WIND DATA 2 Meters
JULY

DATE	MPH SPEED X	DIRECTION	DATE X	MPH SPEED	DIRECTION
1	4	341	16	8	168
2	10	45	17	9	47
3	12	80	18	10	329
4	10	80	19	4	327
5	5	70	20	6	236
6	3	04	21	12	295
7	5	45	22	4	307
8	5	112	23	4	52
9	9	268	24	3	45
10	9	90	25	8	70
11	6	83	26	12	68
12	10	67	27	8	55
13	8	187	28	3	102
14	6	96	29	4	319
15	8	73	30	3	36
			31	5	122

T. De Benedict
1966

Climatic data
Standard shelter
August

(4" fence post) 2 meters

DATE	MIN	MAX	$\bar{X}$	PERCPT (in.)	WIND (~~DATE~~ MIN)	DIRECTION (MAX $\bar{X}$)
1	3.8	7.4	5.6	.17	6	277
2	4.0	10.4	7.2	.02	5	140
3	5.8	13.5	9.7		8	115
4	5.9	12.2	9.0	.02	8	70
5	2.1	7.3	4.7	.06	11	70
6	0.8	8.0	4.4	.01	15	70
7	1.4	6.8	4.2		16	70
8	-0.1	3.2	1.6		14	65
9	-2.0	6.1	2.0	T	7	60
10	-3.1	4.2	0.6		8	80
11	-1.7	8.8	3.6		9	75
12	0.1	11.1	5.6		8	95
13	0.1	10.9	5.5		7	70
14	-1.1	-10.8	5.9		5	55
15	-1.4	0.4	-0.6		5	330
16	-2.3	-1.3	-1.8	.02	6	~~[illegible]~~
17	-3.0	1.8	-0.6	.02	5	80
18	-0.2	4.0	2.0	.03	6	55
19	0.0	3.7	1.8	T	8	65
20	-1.2	0.8	-0.2		2	0
21	-1.0	—		T	2	120
22	—	—		.01	2	0
23	—	—				

P. DeBevoelis
1960

CRELL THAW DEPTH TRANSECT
COAL MINE TRANSECT

DATE	THAW	HOH %	HOH DEPTH	SNOW %	SNOW DEPTH
MAY 23	0	—	—	100	30 cm
JUNE 4	6.8 cm	—	—	78	23.9
JUNE 11	7.1	38	28.0 cm	1.5	17.1
JUNE 18	12.5	36	22.4 cm	0	—
JUNE 25	18.9	36	18.4 cm	—	—
JULY 2	21.4	33	21.0	—	—
JULY 9	23.9	35	24.2	—	—
JULY 16	27.8	32	2[illegible]	—	—
JULY 23	31.5	28	23.2	—	—
JULY 30	35.0	29	18.8	—	—
AUG. 6	38.7	26	17.5	—	—
AUG. 13	39.5	28	17.0	—	—
AUG 20	39.7	25	16.0	—	—

TRANSECT FROM RIVER BLUFF TO WEST PART LAKE ARASS?2 — MEAN OF ALL MEASUREMENTS.

SHOREBIRD FEEDING OBSERVATION

SAMPLE: 9 JN / BR / a / 001 / 8P / f / sat / 3/1A / 5/1 / 0
15 pk, 2 ser j 10-12 ea

Date Loc Sp No. Time Top Moist Veg H:L/D Cut
G/F gc (ground condition, see below)

Species:
- a - Calidris alpina
- b - C. bairdii
- f - C. fuscicollis
- p - C. pusillus
- m - C. melanotos
- T - Tryngites subruficollis
- Pd - Pluvialis dominica
- A - Arenaria interpres
- Pf - Phalaropus fulicarius

Number: 001, 002, 003 etc. without regard to different species, places, or dates

Time: In hourly intervals. 8 = time betw. 8 and 9. P, p.m.
A, a.m.

Topography:
- f - flat or gentle slope
- lp - low polygon
- rp - raised polygon
- pt - polygon trough
- pe - pond edge
- d - disturbed ground, as weasel tracks, etc.
- s - stream bank
- m - mound
- ch - channel

Moisture:
- pw - pond water
- sw - standing water (flooded tundra)
- sat - saturated
- w - wet
- d - dry

Vegetation: (graminiforms/forbs, + ground condition (A or B))
- ~~0 - bare ground~~
- ~~1 - moss and lichen only~~
- 0 - No graminiforms or forbs
- 1 - less than 25% ~~graminiforms~~
- 2 - 25-50% ~~gram's~~
- 3 - 50-75%
- 4 - 75-100%
- A - moss and/or lichen understory
- B - bare ground or 'muck' understory

Thus 3/1A

Height, living/dead: 0 (prostrate) or 1, 2, etc. (inch intervals)

Cuttings: 0, 1, 2, or 3 (none, some, moderate, heavy)

Style: peck (pe), jab (j) or probe (pr)

Maximum observations from one individual:
30-sec. unit observation x 5 without flying
additional 30x5 each time bird flies, up to 5 sites

P. DeBenedictis
1966

Meade River Coal Mine.
Feeding observations

NOT TIMED. — I have attempted to score every bird seen, watching it long enough to see how it fed, est. duration 5-10 10 seconds each.

DATE	sp.	time	#	top.	moist	vegetation	understory	lemming	ht.	
29 MAY	mauri	9P	001	rp.	w	>1/3 Cassiope	ml	none	2/0	pk
	"	"	collected 002	"	"	"	"	"	"	1/0	pk.
30 MAY	Pd	10A	003	f	wd	1/1 Dryas-Cassiope	1 sand	"	>1/0	30 sec. 3 pk
Squatarola	Ss	"	004	f	d	1/2 "	.1 sand	"	>1/0	pk
Cerastium = Salix phlebophylla	φ	"	005	lp	d	>1/2 Dryas Cerastium	ml sand	"	>1/0	pk
together {	p	"	006	f	d	1/3 do	ml	"	>1"/0	pk
	Pd	"	007	f	d	1/3 do.	ml	"	>1"/0	pk
together {	Pd	"	collected 008	f→rp	d	>1/2 do.	ml sand	"	>1/0	pk
	Pd	"	009	"	"	"	"	"	"	"
	Pd	"	010	rp	d	1/3 do	m	"	>1/0	"
	Pd	"	011	"	"	"	"	"	"	"
	Pd	"	012	"	"	"	"	"	"	"
	Pd	11A	013	rp	wd	1/2 do & willow	ml	"	>1/0	"
	Pd	"	014	rp	wd	1/1 willow	ml	"	>1/0	pk
	Pd	"	015	"	"	"	"	"	"	"
	Pd	"	016	"	d	1/2	ml	"	>1"/0	pk
	Ai ♀	noon 12A	017	f	d	1/1 Dryas	sand	"	>1"/0	? pk
	Ai ♂	" A	018	f	d	1/1 Dryas	sand	"	>1"/0	? "
31 MAY	Pd	10A	019	f	wd	>1/1 Cassiope	ml	"	1"/0	pk
	Pd	10A	020	f	wd	>1/2 do.	ml/Sand	"	>1"/0	pk
	Pd	10A	021	f	wd	>1/3 do.	ml/Sand	"	>1"/0	"
	Pd	2P	022	rp	wd	1/1	ml	"	>1"/0	pk
{	Pd	2P	023	rp	m	1/3	ml	"	>1"/0	pk
together	a	"	024	"	"	"	"	"	"	"
	a	"	025	"	"	"	"	"	"	"
	Ai	"	026	"	"	"	"	"	"	"
	a	2P	027	lp	sat.	3/0	frozen sand	"	2"/0	feeding is bare space between

P. DeBenedictis,
1966

Meade River Coal Mine, Untimed Feeding observations. -2

DATE	sp.	time	#	top.	moist	vegetation	understory	ht.	method
31 May (flock)	Ai	9P	028	f	→sat	1/1 Cassiope Cerastium	ml	>1"/0	pk
(flock)	Ai	"	029	f	"	1/2 Salix do.	ml	>1"/0	pk
(flock)	a	"	030	f	"	1/2 do.	ml.	"	"
	Pd	"	031	f	"	3/2 do.	ml.	>1"/0	"
1 June	♂m	10A	032	lp	w	3/1 Salix	ml	3/0	sparse sedge grass. pk
	Pd	"	033	ridge lp		1/2 Salix Vaccinium Cerastium	ml.	>1"/0	pk
	Pd	"	034	f	w	>1/4 Dryas Cassiope	ml	1/0	peck at Bone chips
	Pd	"	035	f	w	2/2 Cerastium Pyrola Salix	ml	>1"/0	pk
	Pd	"	036	f	w	1/4 Dryas Vaccinium	l(m)	>1/0 grass 6"	pk
Flock of 21 birds	21 a	11A	037	f	w→sat	1-2/2 Cerastium	ml	>1/0	jab ground frozen

note: birds feeding mostly in lichen areas between grass clumps.

DATE	sp.	time	#	top.	moist	vegetation	understory	ht.	method
flock	a	"	038	f	w	+	m	0/1"	jab
flock	a	"	039	f	w	3/>1 Salix	m	3"/0	jab
flock	a	"	040	f	w	3/>1 do.	m	3"/0	jab
	Squatarola	"	041	f	w	1/2 Dryas	ml	1"/0	pk
	Pd	"	042	f	w	>1/3 Dryas Cassiope	ml	>1"/0	pk
"together"	a	"	043	f	w	1/1 cerast.	ml.	>1"/0	jab
"together"	a	"	044	f	w	1/1	ml	>1"/0	jab
2 June	Pd	7A	045	f	d	>1/>1 Dryas	1:3 ml/sand	>1"/0	pk
	Pd	7A	046	f	d	>1/2 Dryas	ml	>1"/0	pk
Limnodromus	Ls	7A	047	f	w	2/2 Dryas	ml	2"/0	j
	Ls	7A	048	f	w	1/1 Dryas	ml	>1"/0	j
	m♂	7A	049	f	w	1/1 Salix	m	>1"/0	j
	a	7A	050	?rp, d	w	3/0	(dog shit) muck	1"/0	j+pk
flock of 6 birds	6 a	8A	051	f	d	3/1 Cerastium	l/sand	1"/0	j
	Ai♂	8A	052	sand dune	d	1/1 Salix	sand	1"/0	flipping sand
	Ai♀	8A	053	"	d	0/1 Salix	"	"	j.

P. DeBenedictis, 1966

Meade River Coal Mine
Unretrieved Feeding Observations - 3

	DATE	sp.	time	#	top	moist.	vegetation	understory	ht.	method
	2 June	m♂	8A	054	sand dune	d	0/1 Salix	loose sand	>1"/0	jab
pair		Ai♂	8A	055	(ridge) lp	w	1/1 Dryas	ml	>1"/0	jab
pair; one bird		Ai♀	8A	056	ridge lp	w	2/2 Dryas	ml	2"/0	j.
one bird		Ai♀	8A	057	ridge lp	w	2/2 Dryas	ml	2"/0	?pk
		Squatarola	8A	058	rp	d	>1/3 Dryas	sand	>1"/0	pk
Limnodromus		Ls	9A	059	rp	w	1/1 Sal rp	m(l)	3"/0	j.
flock		Ls	9A	060	rp	w	2/1 misc herbs	ml	1"/0	j.
		m♂	9A	061	rp	w	1/1 do.	ml	1"/0	j
		m♂	9A	062	rp	w	2/1 do.	ml	2"/0	j.
one bird		a	9A	063	ridge lp	w	2/1 Cerastium	ml	2"/0	j
		a	9A	063	"	–	"	"	"	"
from flock of 4♂		m♂	9A	064	f→rp	w	2/1 Dryas	sand	3"/0	j.
		m♂	9A	065	f→rp	w	2/1 Dryas	sand	2"/0	j.
		Ls	9A	066	rp	w	3/1 Dryas	ml	3"/0	j
		Squatarola	9A	067	f	d	0/4 Dryas	l, sand	>1"/0	probe
together; one bird		"	9A	068	ridge lp	d	1/3 Dryas	m(l)	grass 5" >1"/0	pk
		"	9A	069	lp	w	3/1 Dryas	ml	3"/0	pk
one bird		Pd	9A	070	ridge lp	d	1/3 Dryas	ml	>1"/0	pk
		Pd	9A	071	ridge lp	w	2/2 Dryas	ml	3"/0	pk
		m♂	10A	072	ridge lp	w	1/2 Salix	ml	6" grass 2"/0	probe
one bird		a	10A	073	lp	w	3/2 Salix	m	3"/0	j.
		a	10A	074	lp	w	3/0	m	3"/0	j.
		m♂	10A	075	(filled lake) f	sw 1" deep	3/0	m	5"/0	?
		mauri(?)	11A	076	d stream	w	2/0	mud	>1"/0	jab
	→	m♂*	5P	collected 077	f	w-sat	1/2 Cerastium	ml	grass 5" >1"/0	jab.
		a	10P	078	lp	sat	2/0	mud	4"/0	jab

P. DeBenedictis
1966

Meade River Coal Mine
Unlimited feeding Observations - 4

DATE	sp.	time	#	top.	moist.	vegetation	understory	ht.	method
2 June	6 a	10P	079	rp	w	1/2 Dryas Cerastium	ml	grass 3" >1"/0	j
one flock 6 birds	6a	10P	080	rp	w	2/1 Salix Cassiope	ml	3"/0	j.
together +1 ♂ not feeding	2m♀	10P	081	tr ~~rp~~(rp)	w	1/2 Pyrola Salix	ml	grass 3" >1"/0	j.
3 June	a	11A	082	f	w	1/2 Salix cerastium	ml	1"/0	j
	Pd♂	11A	083	f	w	>1/3 Cassiope cerastium Salix	lm	>1"/0	pk
	Pd♀	11A	084	f	w	do.	lm	>1"/0	pk
with male which was not feed.	Ls*	11A	collected 085	f^d	w	1/1 Salix	ml	>1"/0	j
together	Ls♂	11A	086	lp	2" over ice sw	2/0	ice ml	4"/0	j
	Ls♀	11A	087	"	"	"	"	"	"
	m♂	11A	088	"	"	"	"	"	"
	Ls♂	11A	089	"	"	2/1 Salix	"	"	"
	Ls♀	11A	090	"	"	"	"	"	"
	3Ai (1*)	11A	1 collected 091	f^d	(peck) - feeding on coal pile where dogs had been kept				
pair	Ls*	11A	collected 092	lp	2" sw	2/0	ice m	4"/0	j
	Ls*	11A	collected 093	lp	1" sw	2/0	ice m	4"/0	j
	a*	Noon	collected 094 ~~sp~~	rp	w	1/2 Salix	ml	1"/0	j
	2a	"	095	f^d	w	1/1	ml/mud	>1"/0	j
one bird	m♂	"	096	lp	w	3/0	ml	3"/0	j
	m♂*	"	collected 097	lp	w	2/1 Salix	ml	4"/0	j
	m♂	"	098	lp	2" sw	2/0	ice ml	4"/0	j
	p*	"	collected 099	f ~~sat~~	sat ~~[illegible]~~	4/0	ice	6"/0	?
	a	8p	100	lp	w	2/1 Dryas	ground thaws 3" m	3"/0	j.
pair	a	9p	101	rp	w	1/1 Salix	ml	grass 3" >1/0	j
	a	9p	102	rp	w	>1/3 Cassiope Cerastium	ml	1"/0	j
pair	a	9p	103	rp	w	1/2 Salix	ml	1"/0	j
	a	9p	104	rp	w	1/1 Cerastium Saxifraga	ml	>1"/0	j

P. DeBenedictis
1966

Meade River Coal Mine
Unilimed feeding Observations - 5

DATE	sp	time	#	top.	moist	vegetation	understory	ht.	method
3 June pair	a	9P	105	rp	w	2/1 Vaccinium Ledum	ml	grass 2" >1"/0	j
	a	9P	106	rp	w	2/2 Vaccinium Cassiope	ml	grass 3" 1"/0	j
loose flock+ 1 m♂, 1p which are not feeding	a	9P	107	rp	w	1/1 Cerastium	ml	>1"/0	j
	2p	9P	108	rp	w	>1/3 Cassiope	ml	2"/0	pk
	5a	9P	109	rp	w	1/1 Cerastium Ledum	ml	3" grass >1/0	j
from group of 3 a	a	9P	110	tr	w	1/1 Salix	m(l)	2"/0	j
	a	9P	111	tr	sat	1/>1 Salix	m	grass 3" >1"/0	j
pair	a	9P	112	f→rp	w	1/1 Salix	ml	grass 3" >1/0	j
	a	9P	113	"	"	1/2 Salix	ml	"	j
	p	10P	114	rp	w	1/2 Cerastium	m(l)	grass 4" >1"/0	pk, 'pb
	a	10P	115	rp	w	2/3 Vaccinium	ml	grass 6" >1"/0	j.

most birds seen 10 to 11 P sleeping.

DATE	sp	time	#	top.	moist	vegetation	understory	ht.	method
4 June pair	a	10A	116	f[d]	w	2/0	ml/mud	1"/0	jj
	a	10A	117	f[d]	w	2/0	ml/mud	1"/0	j
	Pd♀	10A	118	f	d	1/3 Cerastium	ml	>1"/0	pk
	m♂	10A	119	f	sat	1/1 Cerastium	ml	grass 4" >1"/0	pk.
pair	Pd♀	10A	120	f	w	1/1 Cerastium	ml	>1"/0	pk
	Pd♂	10A	121	f	d	1/2 Cerastium	ml	>1"/0	pk
pair	Pd♂	10A	122	lp	w	1/1 Cerastium Salix	ml	>1"/0	pk
	Pd♀	10A	123	lp	w	1/1 do.	ml	>1"/0	pk
	p	10A	124	lp[d]	w	1/1 Salix	ml	1"/0	pk
	m♂	10A	125	f	w	3/1 Salix	m(l)	4"/0	j
one bird	a	11A	126	lp	sat	3/1 Salix	m(l)	3"/0	j
	a	11A	127	?lp	sat	1/1 misc.	m(l)	3" grass >1"/0	j
	a	11A	128	rp	sat	3/0	ice m	3"/0	probe
	m♂	11A	129	?rp	d	4/1 Ledum Vaccinium	m	2"/0	sub-surface
pair	2p	11A	130	feeding on ice in Carex marsh. See species account. Marsh as in obs # 086 to 088					

P. De Benedictis

Waders Feeding Observation – 6
Meade River Coal Mine

no lemming sign.

	DATE	sp.	tr	no.	top.	moist.	vegetation	understory	ht.	method
	5 June	p♂	4A	131	rp	w	1/1	ml	>1"/0	pk
		Pd	5A	132	lp	w	1/3 Dryas	ml	grass 3" 1/0	pk
pair		p	5A	133	f	sat	1/2 Dryas	ml	grass 3" 1/0	pk
pair		p	5A	134	f	sat	1/4 Dryas	ml	do.	pk
pair		p♂♀	5A	135	f	w	1/3 misc.	ml	5" grass >1/0	pk
loose group		m♂	5A	136	f	w	1/3 "	ml	"	"
loose group / pair		Pd♂♀	5A	137	"	"	"	"	"	"
pair		2a	5A	138	f + lp	sat	2/2 Cassiope	ml	2/0	j
pair		Pd♂♀	4P	139	f	w	1/2 Cerastium	ml	3" grass >1/0	pk
		p	4P	140	f	1" deep sw	1/2 Salix Cerastium Cassiope	ml	1"/0	pk
pair		p♂♀	4P	141	f	sat	1/2 Cerastium	ml	>1"/0	pk
one bird		mauri♀	5P	142	pd	sat.	2/0	m	1"/0	j.
one bird		mauri♀	5P	143	pd	sat.	4/0	ml	2"/0	j
one bird		mauri♂	5P	144	(marginal ridge) pd	w	1/1 Ledum	ml	3" grass >1"/0	j
one bird		"	5P	145	pd.	w	5/0 Ledum	ml	3" grass >1"/0	j.
	7 June.	m♂	2P	146	st	sat	1/3 Salix	m	8"/0	subsf.
		Squatarola	2P	147	f	d	1/3 Dryas Cerastium	ml	3" grass >1/0	pk
		Pd♂	2P	148	f	w	2/2 Vaccinium	ml/sand	3/0	pk
		m♀	3P	149	sp	w	3/1 Salix	m	4/0	subsurface j
		a♂	3P	150	sp	w	1/3 Salix	ml	3" grass 1/0	j
		mauri♂	3P	151	pd	sat	1/1 Ledum	ml	1/0	j
pair		Squatarola	3P	152	lp	w	0/2 Ledum	ml	1/0	jk
pair		"	3P	153	Carex marsh	sat	2/1 Salix	m	5/0	pk
		a	4P	154	tr.	sat	1/1 Cerastium	m	>1/0	j
		p.	4P	155	tr.	d	1/1 Cerastium Silene	m	>1/0	pk
		a	4P	156	f	w	1/3 Cassiope	ml	1/0	j
		Pd	4P	157	f	d	1/2 misc.	ml.	1/0	pk.

Untimed feeding observation - 7
Meade River Coal Mine.

DATE		species	time	#	top.	moist	vegetation	understory	ht.	method
7 June		p	4P	158	pd	1" deep, ice sw	2/0 →	ice	1/0	pk
	together {	a	5P	159	fd (~~[illegible]~~)	sat (~~70~~)	1/0	mud	>1/0	j
	pair }	2p	5P	160	"	"	"	"	"	pk
8 June	together {	p	1P	161	f	1" sw	1/0	coal	grass 4" —	pk
	}	lobipes	1P	162	"	"	"	"	"	"
		p	2P	163	pd	1" pw	1/1 Cassiope	m	1/0	pk
		p	3P	164	pd	sat	3/0	m	3"/0	pk
	pair {	Pd♀	3P	165	rp	d	1/3 Dryas Cerastium	ml	>1"/0	pk
	}	Pd♂	3P	166	rp	d	1/3 Cassiope Dryas	ml	>1/0	pk
	4 birds	4p	7P	167		snow, see species account.				
	7 birds	7p	7P	168			do			
	3 birds	3p	9P	169			"			
9 June		hs	10A	170	Pd/d	3" pw	2/0	m	4/0	pk.
		a	10A	171	f	d	1/3 Betula	lm	>1/0	j
		Pd♀	10A	172	f	w	1/3 Cerastium	ml	grass 3" >1/0	pk
	pair	a♂♀	10A	173	f→lp	w	2/1 Salix Ledum	ml	grass 3" 1/0	j
		m♀	10A	174	lp	w	3/1 Salix	ml	5/0	?
		m♀	10A	175	lp	1" deep sw	4/0	ice m	5/0	j
	together {	m♀	10A	176	rp	w	1/2 Ledum	lm	grass 3" >1/0	j
	}	p	10A	177	"	"	"	"	"	pk
		m♂	10A	178	f	w	3/0	m	8"/0	?
	together [one bird {	m♀	11A	179	f	w	2/3 Vaccinium Cerastium	ml	3" grass >1"/0	j
	}	m♀	11A	180	f	w	1/2 Ledum Vaccinium	ml	"	j
	pair {	♂ a	11A	181 two birds	"	"	"	"	"	j
	one bird }]	♀ a	11A	182 one bird	"	"	2/3 Vaccinium Cerastium	ml	"	j
		Pd♀	11A	183	f	w	1/3 "	ml	>1/0	pk
		Squatarola	11A	184	f	w	1/2 Salix	m	3/0	pk

Continued Feeding Observations -8
Meade River Coal Mine

DATE	Species		#	top.	moist.	vegetation	understory	ht.	method
9 June	p	11A ↓	185	f	d	1/1 Potentilla	sand	2" 0/0	on bare sand pk
	p		186	f	d	1/1 Silene	sand	>1"/0	"
	Ls		187	pond	3" pw	2/0	m	6/0	j
	Ls		188	pond	"	"	"	"	"
	Pd♀		189	ridge at pond	fat	1/1 Dryas	m	6" grass >1/0	pk
	Pd♀		190	pond	1" pw	2/0	m	6/0	pk
	Ls		191	pond	1" pw	1/0	m	5/0	j
two birds	Lobipes Ll (2♀)		192	pond	"	"	"	4/0	pk
	Pf		193	pond	8" "	"	"	10/0	pk
two birds	2PF		194	pond	8" pw	"	"	"	"
	Ls	11A	195	pond	2" pw	3/1 Potentilla	m	4/0	j
	Ls	11A	196	pond	4" pw	1/1 Potentilla	m	4/0	j
	Pf♀	11A	197	pond	5" pw	1/0	m	10/0	dipping pk
	Pf♀	11A	198	pond	3" pw	3/0	m	8/0	dipping
group 3 birds	♂♀♀ 3Pf	11A	199	pond	1" pw	1/0	m	4/0	pk
	Pf♀	11A	200	pond	1" pw	3/0	m	4/0	pk
	a	noon	201	f	w	3/1 Salix	frozen m	4/0	j
	SS♀	"	202	f	d	0/4 Dryas Salix	m	>1"/0	pk
3 birds	3p	"	203	f^d weasel ed.	>1" dep sw	3/0	m	>1"/0	pk
	Pd♀	"	204	f	w	4/1	m	3/0	pk
10 June	m♂	11A	205	ridge lp	w	1/1 Pyrola	m/sand	4"/0	j
	p	2P	206	~~fp~~	w	1/3 Cassiope	ml/mud	>1"/0	pk
	m♂	2P	207	lp	w	3/1 Cerastium	m(l)	3/0	j
pair {	Ai♂	2P	208	lp	d	1/2 Dryas	sand	>1/0	pk
	Ai♀	2P	209	lp	d	1/2 Dryas	sand	>1/0	pk
	Ai♂	2P	210	rp	d	2/1 Dryas Salix	sand	2/0	pk
	Pd♂	2P	211	rp	d	1/3 Cassiope Cerastium	ml	>1/0	pk

Detailed feeding observations ~9
Meade River Coal Mine

DATE		sp.	time	#	top.	moist	vegetation	underst.	ht.	method
10 June		Pd♀	2P	212	rp	d	>1/1 Salix	ml	>1/0	pk
11 June		a*	noon	213 (P.DeB. 451)	f	sat	0/1 Rubus Vaccinium	m(l)	>1"/0	pk
12 June		a	2P	214	f→lp	1-2" sw	3/1 Ledum	m(l)	4/2	j
	one bird	a	2P	215	"	sat	2/1 Vaccinium Ledum	ml	3/0	j
	one bird	a	2P	216	"	"	"	"	"	"
		m♂	2P	217	rp	w	1/3 Rubus Ledum	ml	1/0	probe
	one bird	m♂	3P	218	ridge in pond	sat	1/?	m	2/0	j
	one bird	m♂	3P	219	in pond rp	sat	1/0	m	3/0	pk
	pair / one bird	p	3P	220	in pond rp	sat	0/0	m	>1/0	pk
	pair / one bird	p	3P	221	pond	ice	3/0	ice ?	3/0	pk
	pair / one bird	p	3P	222	ridge in pond	sat	1/0	m	3/0	pk
		a	10P	223	lp	w	8/1 Dryas	sand	3/0	j.
13 June		m	7A	224	pond	1" pw	2/1 Dryas	m	2/>1	j.
		p*♂	9A	225	f	d	>1/3 Silene Dryas	ml/sand	>1/0	pk
		Pd♀	9A	226	f	d	1/4 Cassiope Cerastium	ml	1/0	pk
	together	m♂	9A	227	pond	1" pw	2/0	m	4/0	j
	together	p♂	9A	228	"	"	"	"	"	ph.
		p♀	9A	229	f	d	1/2 Cerastium Vaccinium Cassiope	ml(sand)	>1/0	pk
		m♂	10A	230	lp	sat	3/0	ml	4/0	j
		p♀*	noon	231	pond	sat	2/1 Salix	m	grass 6" >1/0	ph
		p	noon	232	eating springtails on ice					
		mf*	noon	233	resting on edge of low polygon not feeding					
14 June		LL♀	10A	234	pond	4" pw	1/0	m	6/0	ph.
		m♂	10A	235	ridge in pond	sat	2/1 Ledum	m	6/0	j?

At BORROW - 15,16 June.

Meade River. Feeding Observations

untimed unless # of motions given.

Note = Cerastium no longer refers to Salix phlebophylla hereafter.

DATE	sp.	time	#	top.	moist.	vegetation	substratum	ht.	note
17 June	lobipes ♀	4P	236	pd	1" pw	2/0	m	6/2	pk
	" ♂	4P	237	pd	1" pw	2/0	m	4/2	pk
	PF♀	5P	238	pd	4" pw	2/0	m	8*/0	pk
	PF♂	"	239	pd	4" pw	2/0	m	8*/0	pk
lobipes	LL♀	"	240	pd	3" pw	3/0	m	8*/0	1 pk
	mauri ♀	"	241	pd	~~pw~~	1/1 Salix	m	4" grass >1/0	?; j
	PF ♀	"	242	pd	3" pw	1/0	muck	8*/0	2 pk
	PF♂	"	243	pd	6" pw	3/0	m/mud	12*/0	2 pk
	PF ♀	"	244	pd	5" pw	2/0	"	10*/0	5 pk
one bird; all obs. less than 30 sec.	p	"	245	pd	8" pw	2/1 Salix	m	4/0	pk
	p	"	246	pd	sat → >1"	1/0	m	3/0	pk
	p	"	247	pd	sat	1/0	m	3/0	pk
	p	"	248	pd	sat → >1"	1/0	m	4/0	pk
	p	"	249	pd	sat	1/0	m	4/0	pk
	PF♂	"	250	pd	6" pw	1/0	m	8*/0	3 pk
	PF♀	"	251	pd	2" pw	1/0	m	4/0	2 pk
	m♂	"	252	lp (~~pd~~)	sat → 1"	>1/0	m	4" grass >1"/0	?; j/pk
together	PF♀	"	253	pd	4" pw	2/0	m	1/0	pk
one	PF♂	"	254	pd	"	"	"	"	0 pk
	PF♂	"	255	pd	"	"	"	"	1 pk
one	PF♀	"	256	pd	"	"	"	"	0 pk
	PF♀	"	257	pd	"	"	"	"	"
	ls♂	"	258	pd	sat	1/0	m	3/0	j
	PF♂	"	259	pd	4" pw	1/0	m	6*/0	pk
	PF♀	"	260	pd	6" pw	2/0	m	8*/0	2 pk
3 birds	PF♂♀♀	"	261	pd	4" pw	2/0	m	8*/0	pk

*grass floating on surface above water ht.

Meade River Feeding Observations

Onetime unless # motions given

DATE	sp.	time	#	top	moist.	vegetation	understory	ht.	method
17 June	lobipes	5P	262	pd	8" pw	1/0	m	10/0	ph
	Pf♂	5P	263	pd	4" pw	2/0	m	8/0	ph
	p	5p	264	pd	w	1/0	m	4/0	ph
one bird {	mauri♂	5P	265	catching colembollans on snow bank					28 ph
	"	"	266						54 26 ph
18 June	Pf♀	noon	267	pd	2" pw	1/0	m	8/0	2 ph
	m♀	5P	268	pd	sat→>1"	2/0	m	4/2	j
	p	5P	269	rp	w	1/2 Empetrum ledum	ml	6" grass 1/6	ph
	p	6P	270	river edg	sat	1/0	mud	7/0	ph
19 June one bird but not at one spot for 30 sec. {	Pf♂	11A	271	pond	4" pw	3/0	m	6/2	ph
	Pf♂	11A	272	pond	2" pw	1/0	m	4/1	ph
	Pf♂	11A	273	pond	2" pw	2/0	m/mud	4/0	j ph
	m♂	11A	274	pond	2" pw	..	..	..	j(ph)
	p	11A	275	f	d	2/2 Cassiope ledum	ml	2/0	ph
one bird {	m♂	11A	276	pond	2" pw	2/0	m	8/0	j
	m♂	11A	277	pond	2" pw	3/0	m	6/0	j
one bird, possibly going to a nest {	a	noon	278	f	d	2/1 ledum	ml	4/0	ph(j)
	a	..	279	..	..	..	..	..	..
	m♂	..	280	pond	4" pw	1/0	m	6/0	j (0 in 20 sec.)
together {	Pf♂	..	281	pond	4" pw	2/0	m	8/0	ph
	Pf♂	..	282	..	..	1/0	..	6/0	2 ph
	Pf♀	..	283	..	..	7/0	..	8/0	ph
	Pf♂	..	284	..	3" pw	1/0	m	8/0	ph
20 June	m♀	11A	285	f	w	4/0	m	4/2	j
one bird {	Pf♂	noon	286 ~~pond~~	pond	4" pw	1/0	m	6/5	17 ph
	Pf♂	..	287	..	..	2/0	..	..	9 ph

Meade River feeding Observations

DATE	SPECIES	TIME	NO.	TOP	MOIST.	VEGETATION	UNDERSTORY	HT.	METHOD
21 JUNE	Pd ♂	10A	288	pond	1" pw	2/0	muck	6/2	pk
	Pd ♀	"	289	"	2" pw	2/0	"	6/2	pk
	Pd ♂	10A	290	"	2" pw	1/0	"	6/2	pk
	Cm ♀	10A	291	"	4" pw	2/0	"	8/3	j
	Pf ♂	4½PM	292	"	4" pw	1/0	moss/muck	10/4	6 pk
	Pf ♂	4½PM	293	"	"	"	"	"	7 pk
	Pf ♂	4½PM	294	"	4" pw	2/0	"	6/3	7 pk
	m ♀	"	295	"	3" pond	3/0	"	9/5	j
23 June	Pf ♂	10A	296	"	8" pw	2/0	moss/muck	12/10	40 sec. 28 pk
Lobipes	LL ♀	10A	297	"	6" pw	1/0	"	8/0	3 pk
	Pf ♂	10A	298	"	"	"	"	10/8	7 pk
one bird {	m ♀	"	299	"	3" pw	2/0	m	8/5	j
	m ♀	"	300	"	2" pw	2/0	"	8/5	j
	m ♂	"	301	"	2" pw	2/0	"	8/5	?
	p	"	302	f	d	1/3 Cassiope	ml	5" grass 1/0	pk
	Pf ♀	"	303	pond	2" pw	2/0	m	8/5	pk
	Ls ♂	"	304	ridge in pond	sat	2/0	m	7/6	j
Squatarola	SS	"	305	"	"	1/0	"	3/0	pk
	Ls ♀	"	306	pond	1" pw	2/0	m	6/4	probe
	Ls ♀	"	307	"	sat	2/0	m	4/2	j
pair { one bird {	Pf ♂	11A	308	"	8" pw	1/0	"	10/0	5 pk
	Pf ♂	"	309	"	"	"	"	"	2 pk
	Pf ♀	"	310	"	"	"	"	"	4 pk
	p	"	311	ridge in pond	sat	1/0	m	2/0	pk
	p	"	312	pond	>1" pw	1/0	fallen Arctophila mat	6" grass 0/0	pk
	p	"	313	ridge in Pond	sat	2/0	m	6" grass >1/0	pk
	p	"	314	"	"	1/0	"	5" grass >1/0	pk

Meade River feeding
Observations

Bracket note in the left margin (rows 316–330): large group 6 Ls, 5 p, 2a, 3 SS, 1 Pf.

DATE	SPECIES	TIME	NO.	TOP.	MOIST	VEGETATION	UNDERSTORY	HT.	METHOD
23 June	Lobipes	11 A	315	ridge pond	sat	1/0	m	5" grass >1/3	ph
	Squatarola	11 A	316	[illegible]	sat	2/0	m	3/0	ph
	"	11 A	317	pond	sat	3/0	m	6/3	ph
one bird	a	11 A	318	"	sat	2/0	m	6/4	j
one bird	a	11 A	319	"	"	1/0	"	"	j.
one bird	a	11 A	320	"	"	2/0	"	"	j.
3 birds	3p	11 A	321	"	"	2/0	m	6/4	pk
	p	11 A	322	"	"	1/0	"	6/4	ph.
6 birds	6 p	11 A	323	"	"	2/0	"	6/4	ph
2 birds	2 p	11 A	324	"	>1" pw	2/0	"	6/4	ph
4 birds	4 p	11 A	325	"	sat	1/0	"	–	ph
4 birds	4Ls	11 A	326	"	"	2/0	"	6/4	j
6 bird	6Ls	11 A	327	"	2" pw	1/0	"	"	j.
3 birds	3 Ls	11 A	328	"	1" pw	2/0	"	"	j.
4 bird	4 Pf	11 A	329	"	3" pw	1/0	"	8/2	ph
3 birds	3Pf	11 A	330	"	5" pw	1/0	"	"	pk
25 JUNE	feeding observations entered in catalogue for birds collected								
27 June	"	"	"	"	"	"	"	"	–
28 June	Pf♂	10A	331	pond	4" pw	2/0	m	8/6	pk
	p	"	332	f	d	1/3 Cassiope ledum	l m	3" grass >1/>1	pk
	p	noon	333	ridge betw. ponds	d	1/3 Cassiope ledum	m l	8" grass 0/>1	♀ pk
29 June	Ls	10 A	333	stream	2" sw	1/0	m	6/4	j
two bird	2p	11 A	334	f	d	0/4 Dryas - solid mat	sandy soil	0/>1	pk
	p	11 A	335	lake	>1" pw.	2/0	m	6/5	pk
two birds	2Pf♀	"	336	"	3" pw	"	"	"	"
	Pf♂	"	337	"	6" pw	1/0	m	4/6	pk
	Pd	noon	338	"	>1" pw	2/0	"	6/5	pk.

Meade River Feeding Observations

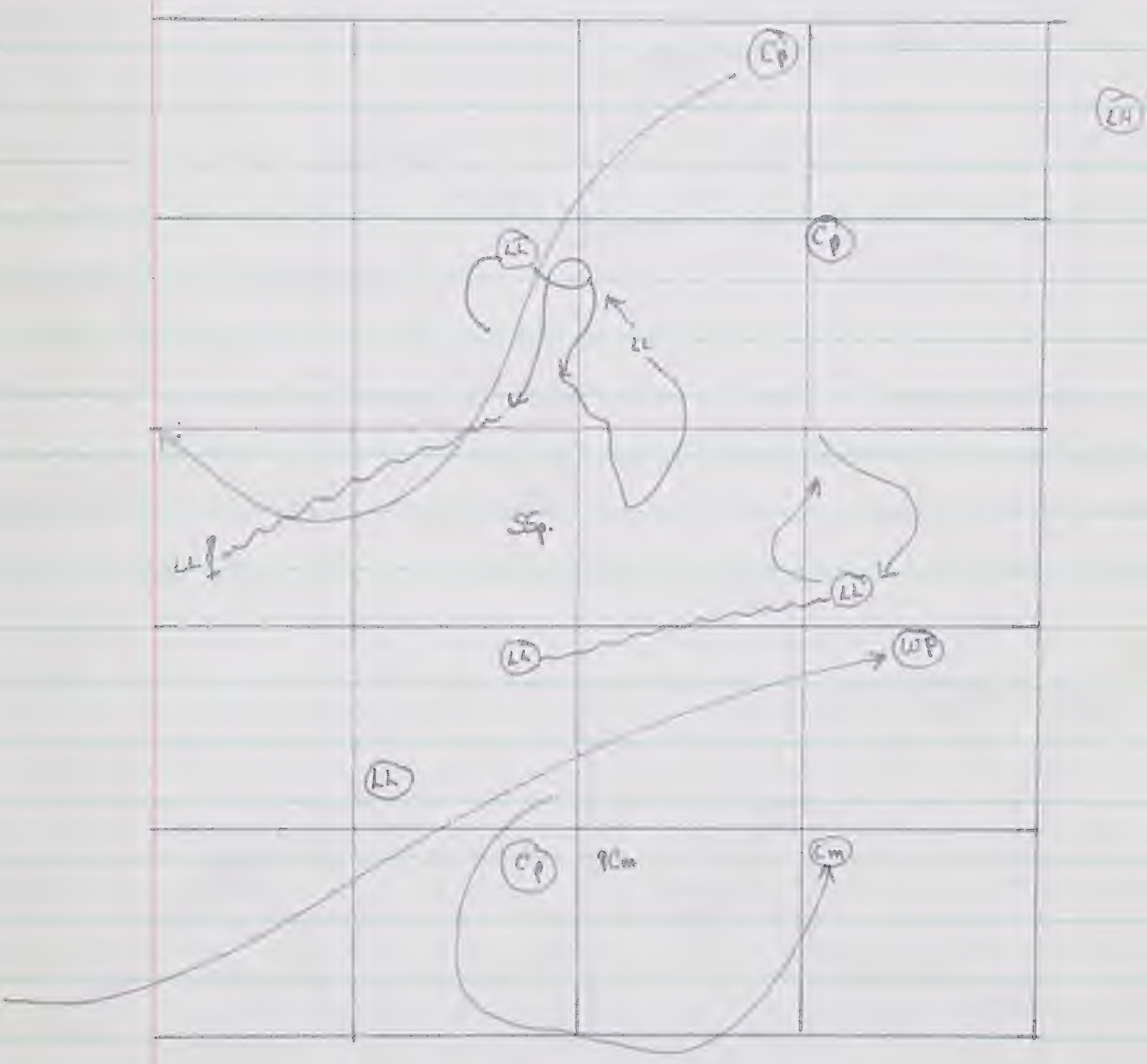
DATE	SPECIES	TIME	NO.	TOP	MOIST.	VEGETATION	UNDERSTORY	HT.	Method
30 June	Ai	11A	339	f	d	1/2 Arenaria	l	0/1	9 pk
? pair {	p	11A	340	f	d	1/3 Cassiope ledum	l	0/21 (6" grass)	5 pk
	p	11A	341	f	d	1/3 Cassiope Vaccinium	l	0/21	6 pk
4 birds together {	Pf♂	noon	342	pond	6"	1/0	m	10/8	7 pk
						(alarmed by Squatarola)			
	Pf♀	"	343	"	"	"	"	"	1 pk
	Pf♂	"	344	"	"	"	"	"	9 pk
	Pf♂	"	345	"	"	"	"	"	pk
together { one bird	p	"	346	f	d	1/2 Salix phleb. Arenaria	l	21/21	12 pk
	p	"	347	f	d	2/2 "	"	"	10 pk
	p	"	348	f	d	1/2 "	"	"	12 pk
6 birds together {	5 p	"	349	f	d	1/2 "	"	"	pk
	mauri	"	350	f	"	"	"	"	"
9 birds together	9 p	"	351	f	d	1/3 Cassiope ledum	"	3" grass 1/1	pk
1 July one bird {	m♀	"	352	lp	pw	2/0	m	10/6	8 pk
	"	"	353	"	"	1/0	"	"	8 pk
	"	"	354	"	"	2/0	"	"	pk
3 July	a	3P	355	f	w	1/2 ledum Cassiope	ml	3" grass 1/1	pk
	a	3P	356	pond	1"p pw	1/0	m	6/10	pk
	a	3P	357	lp	sat	2/1	ml	6/4	pk
	a	3P	358	lp	w	2/1	ml	"	pk
	p	4P	359	pond	1" pw	1/0	m	0/6	pk
	p	4P	360	f	w	1/2 ledum Vaccinium	ml	4" grass 21/21	pk
	a	4P	361	f	w	1/2 "	ml	"	pk
4 July	Ai	11A	362	ridge in pond	sat	2/1 Salix	m	6/3	pk
	p	11A	363	"	"	1/1 Salix	m	grass 6" 0/2	pk
	Ai	11A	364	"	"	0/1 Salix	m	0/2	pk
	p	11A	365	"	"	"	"	"	"

(margin note: eating mosquitoes, feeding gets 8-12 peck/30 sec)

DATE	SPECIES	TIME	NO.	TOP.	MOIST.	VEGETATION	UNDERST.	HT.	MEM
4 July	maurit	11 A	366	ridge in pond	sat	1/0	m	4" 0/0	pk
3 birds	3 p	"	367	"	"	"	"	"	"
	p	"	368	"	"	1/1 <u>Salix</u>	m	6" grass 0/>1	pk
	p	"	369	"	"	1/2 <u>Salix</u>	m	6" grass 0/>1	pk.
2 birds	2 p	"	370	"	"	1/1 <u>Salix</u>	m	6" grass 0/2"	pk
	maurit	"	371	"	"	0/1 <u>Salix</u>	"	0/>1	pk
2 birds	2a	5P	372	f	w	2/1 <u>ledum</u>	ml	4" grass 1/2	?pk
	a	5P	373	f	"	2/1 ledum <u>Cassiope</u>	ml	4" grass 1/[illegible]	pk.
	a	5P	374	f	"	2/1 ledum	ml	4" grass 1/1	pk.
	a	5P	374	f	>1" pw	2/1 ledum	ml	4" grass 1/1	pk.
5 July	See catalogue for birds collected.								
6 July	p	8 P	375	f	d	1/1 ledum	lm	3" gr />1	pk
	p	9 P	376	f	w	2/1 ledum	ml	8" grass >1/>1	pk
	a	9 P	377	f	w	"	"	"	"
	a	9 P	378	"	"	2/2 ledum Cassiope	"	"	pk.
	p	9 P	379	pond	w	1/0	m	6/6	pk.
2 birds	2a	10 P	380	f	w	2/1 ledum <u>Cassiope</u>	ml	6/3	pk.
one pair with chicks	Pf ♂	11 P	380	pond	4" pw	1/0	m	6/6	pk.
	Pf ♂	11 P	381	ridge between ponds	w	1/1 ledum	ml	6/2	pk.
	Pf ♂	11 P	382	pond	2" pw	1/0	m	6/6	pk.
7 July	Pf ♂	3 P	383	pond	3" pw	2/0	m	6/8	pk.
	see notes for C. melanotos.								
8 July	see notes for <u>C. pusillus</u>; <u>C. alpinus</u>								
	Pf ♂	11 A	384	pond	4" pw	1/0	m	6/6	pk
	Pf ♂	11 A	385	pond	1" pw	2/0	m	8/6	pk

Census plot 5 June - 4 to 5 AM.

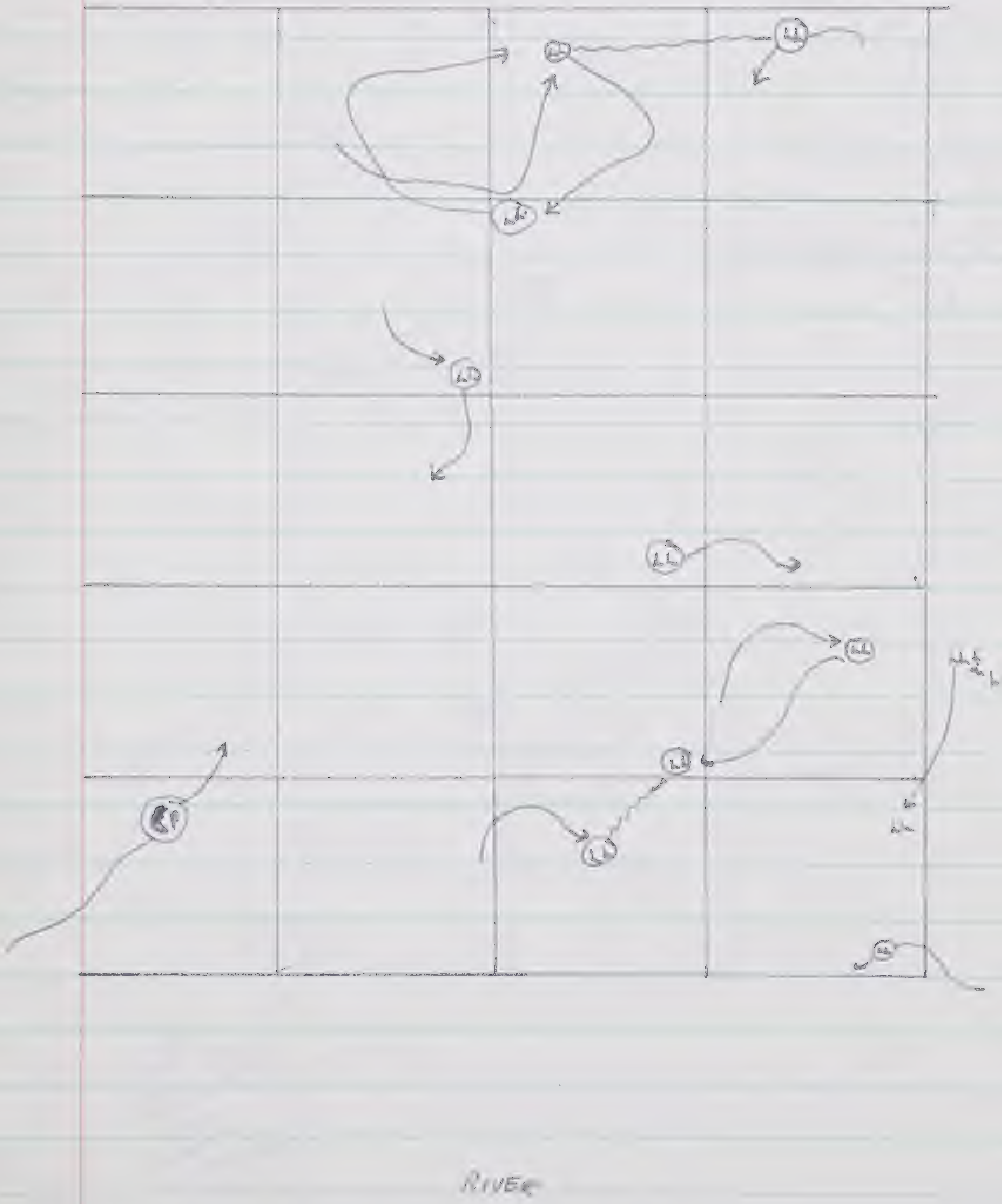
Seen: L. T. Jaeger
Par. Jaeger (2)
Dunlin
♀ Willow Ptarmigan
Yellow Wagtail



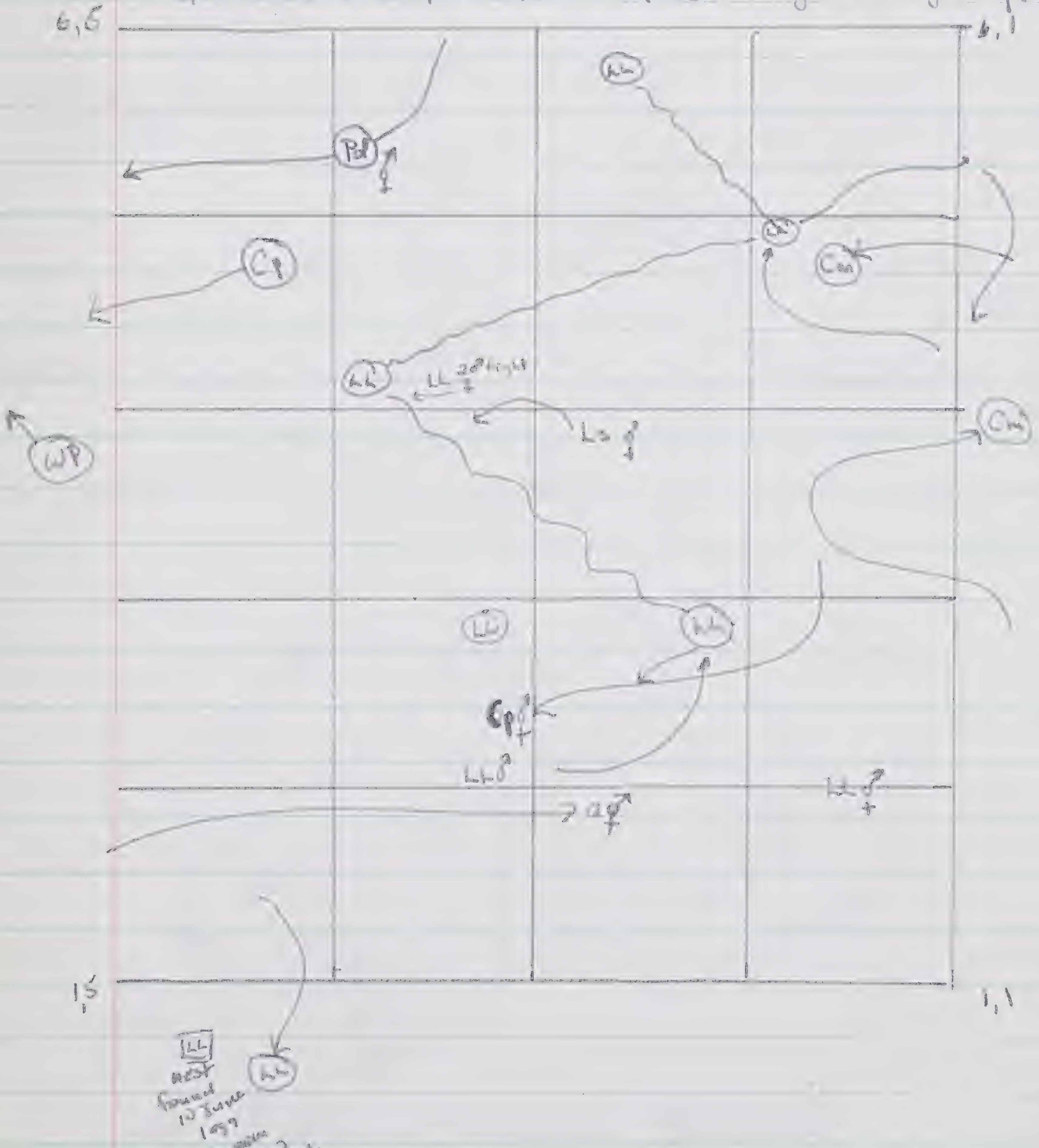
River

Census plot - 2 to 3 PM - 8 June

Seen:
Pectoral Sandpiper
L. T. Jaeger
Parasitic Jaeger(2)
Yellow Wagtail 2+



Census plot 9 June 7:30 to 10 P.M.
little song clear windy.
Visitors - Yellow Wagtail - 1 pectoral sandpiper, 2+♀ phalaropes (R+N), pectoral sandpiper, Oldsquaw Spectacled Eider, Arctic Tern, Sabine gulls migrating over.

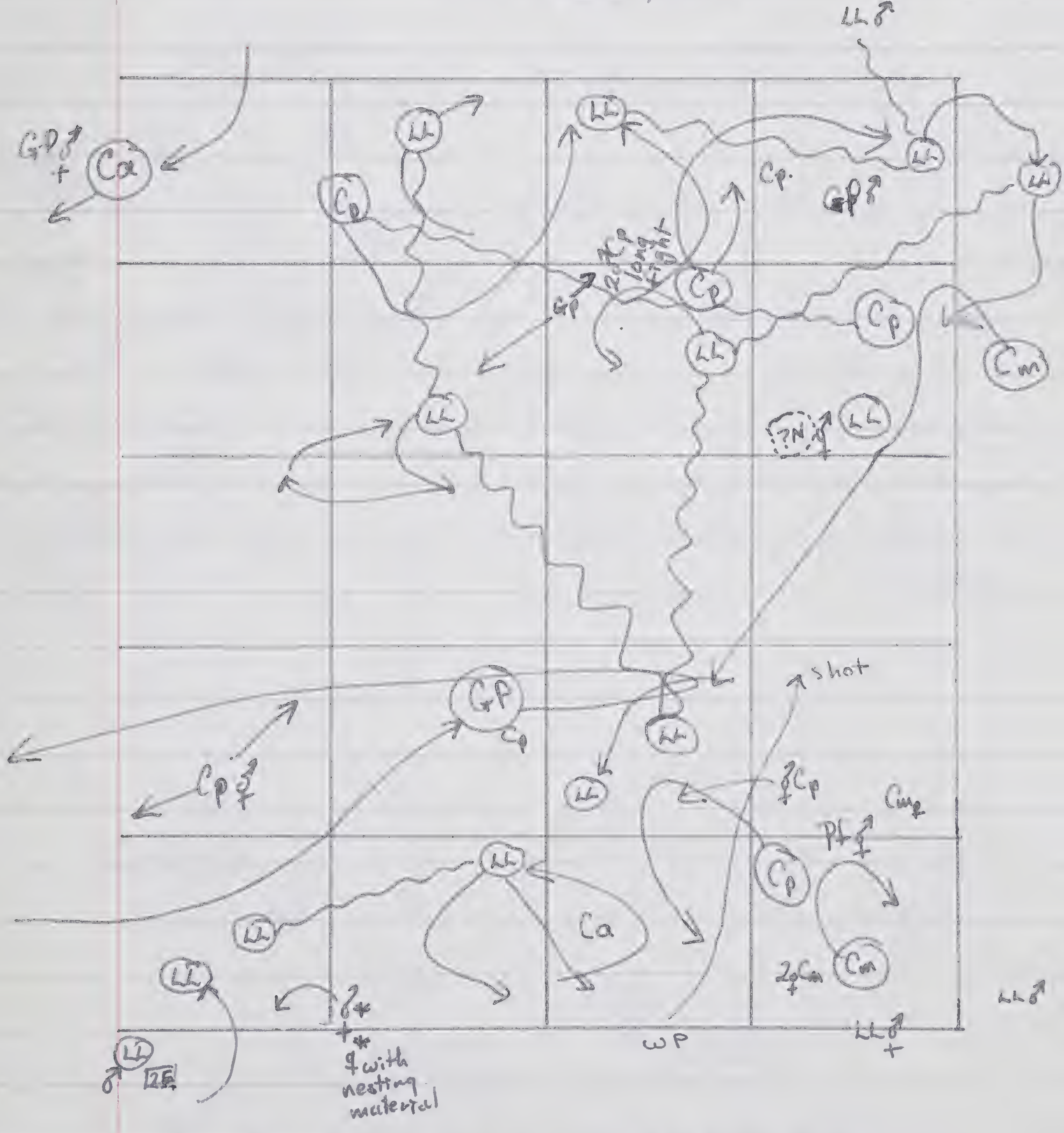


12 June 830 to 10:30 PM.

Visitors:

Flying over Arctic Tern (3) Pintail (♂♀)

Red Phalarope - 2 ±



Note: ♂ Willow Ptarmigan ~~flew over~~. shot by eskimoes.

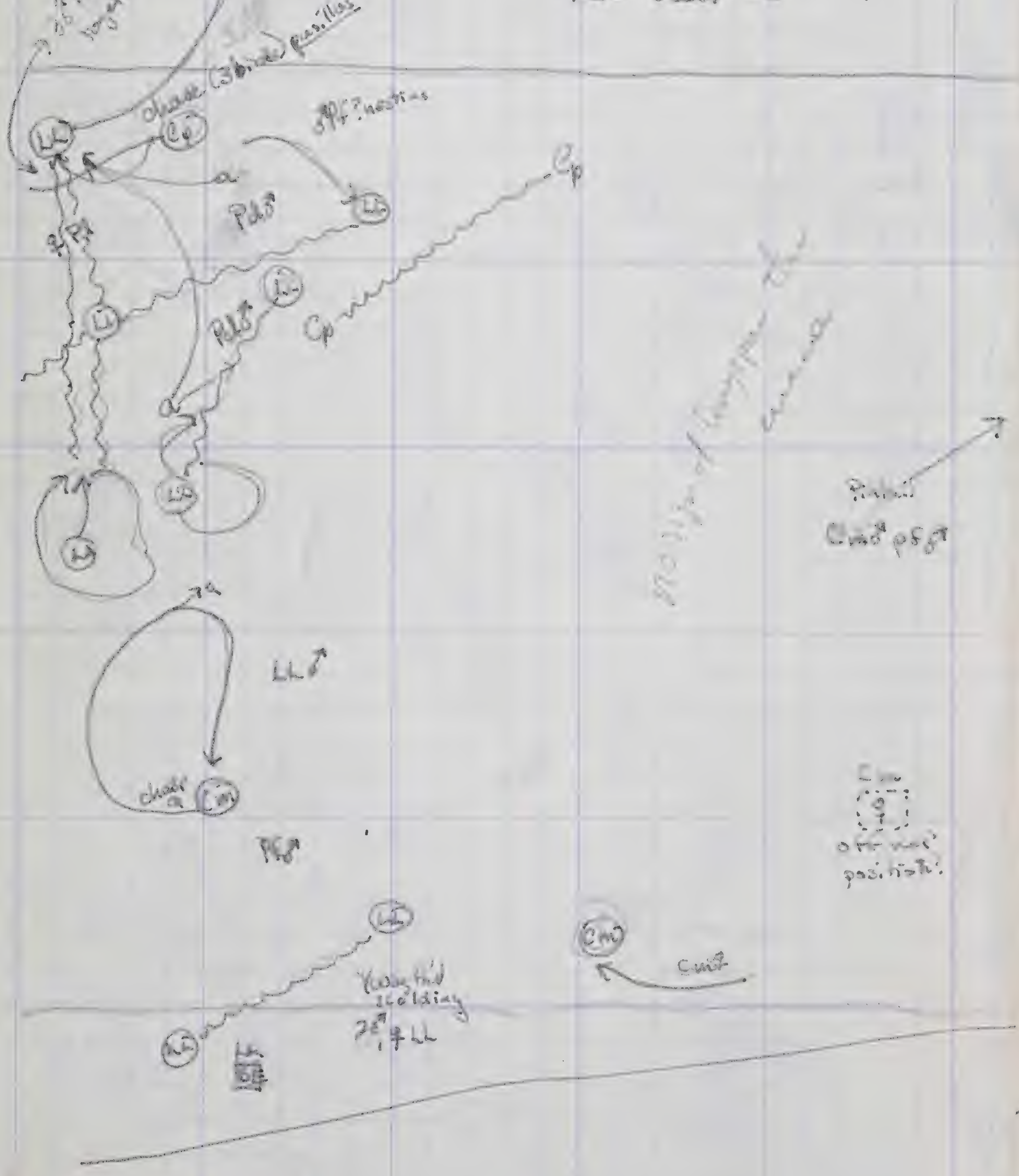
Census plot

16 June 7:30 to 10:30 P.M. Visitors:

Pintail 1 ♂

L.T. Jaeg. - 2 flying over

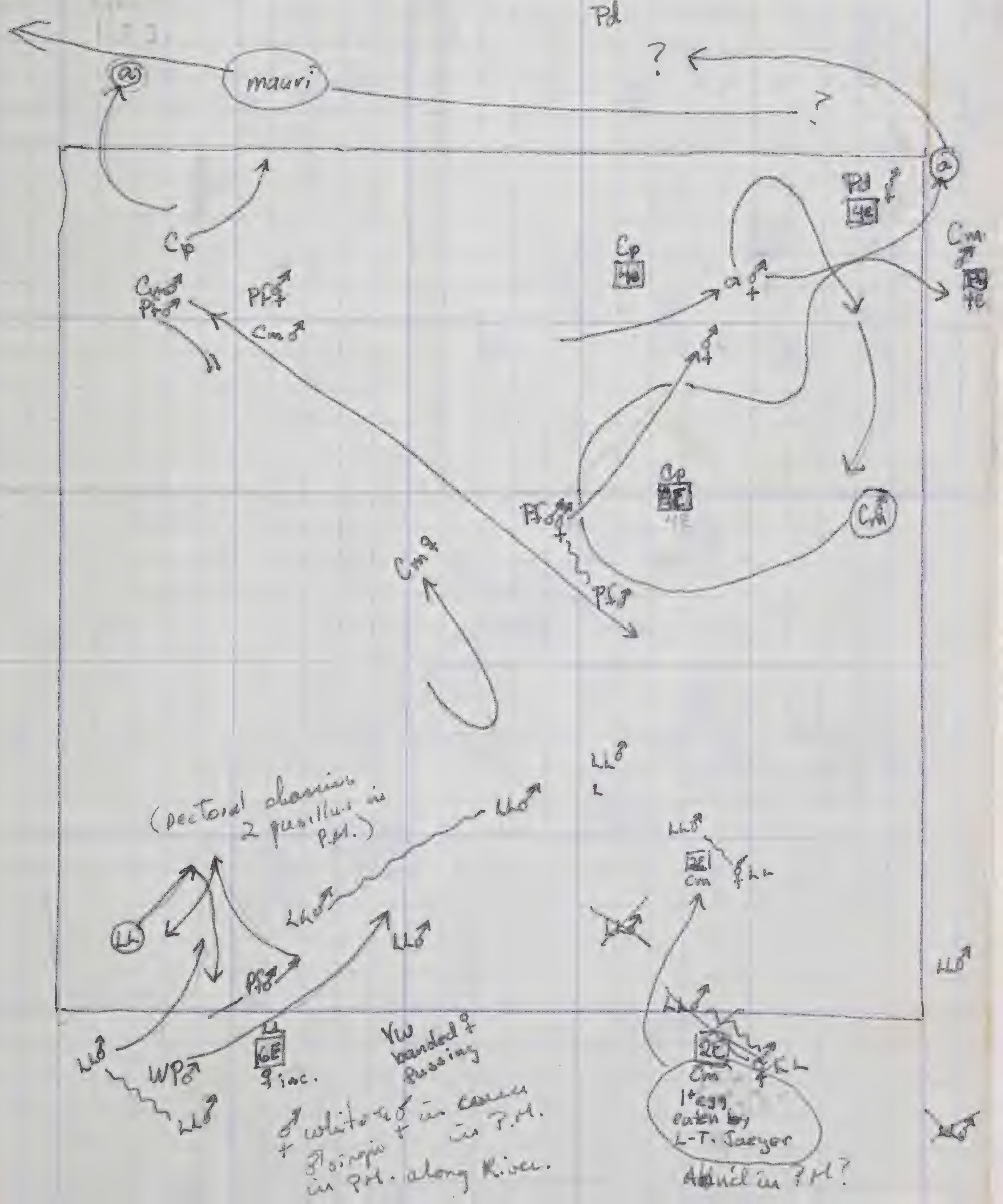
Par. Jaeger - 2 "



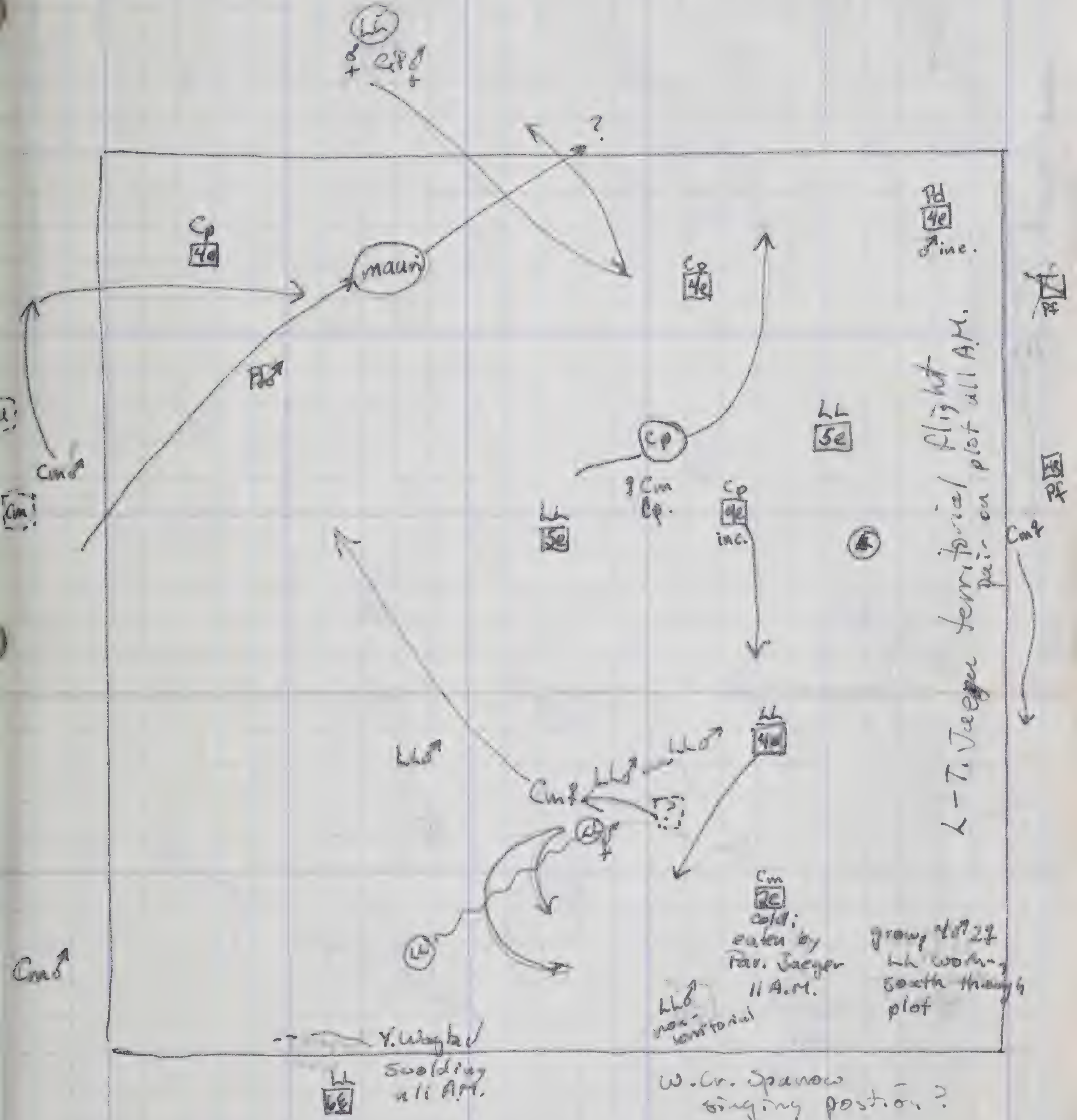
Visitors - 1 pair Jaeger
1 L-T- Jaeger

Oldsquaw flying over
Redpoll

19 June 10:30 AM to 1:30 P.M.



21 June — 9 to 12 A.M. — clear and windy



Visitors — 2 Par. Jaegers see note above.

no song

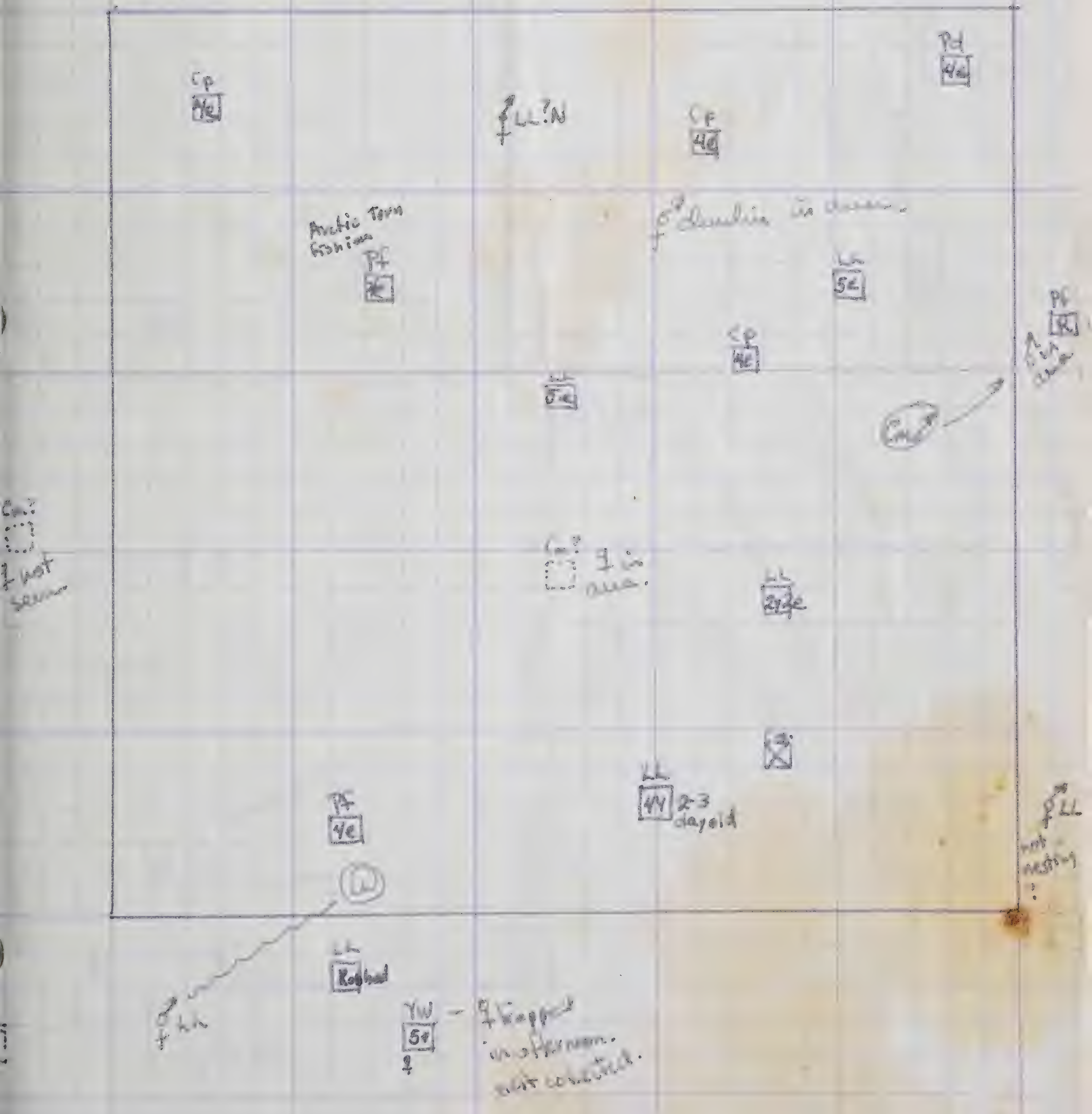
21 June

2 to 5:30 P.M. Visitors – Dowitcher over plot
[illegible] ? landed
♂ Parasitic Jaeger hunting
2-3 non terr. ♂ LL
1-2 non terr ♀ LL

26 June 1966   1:30 to 5 PM   9 to 10 P.M.

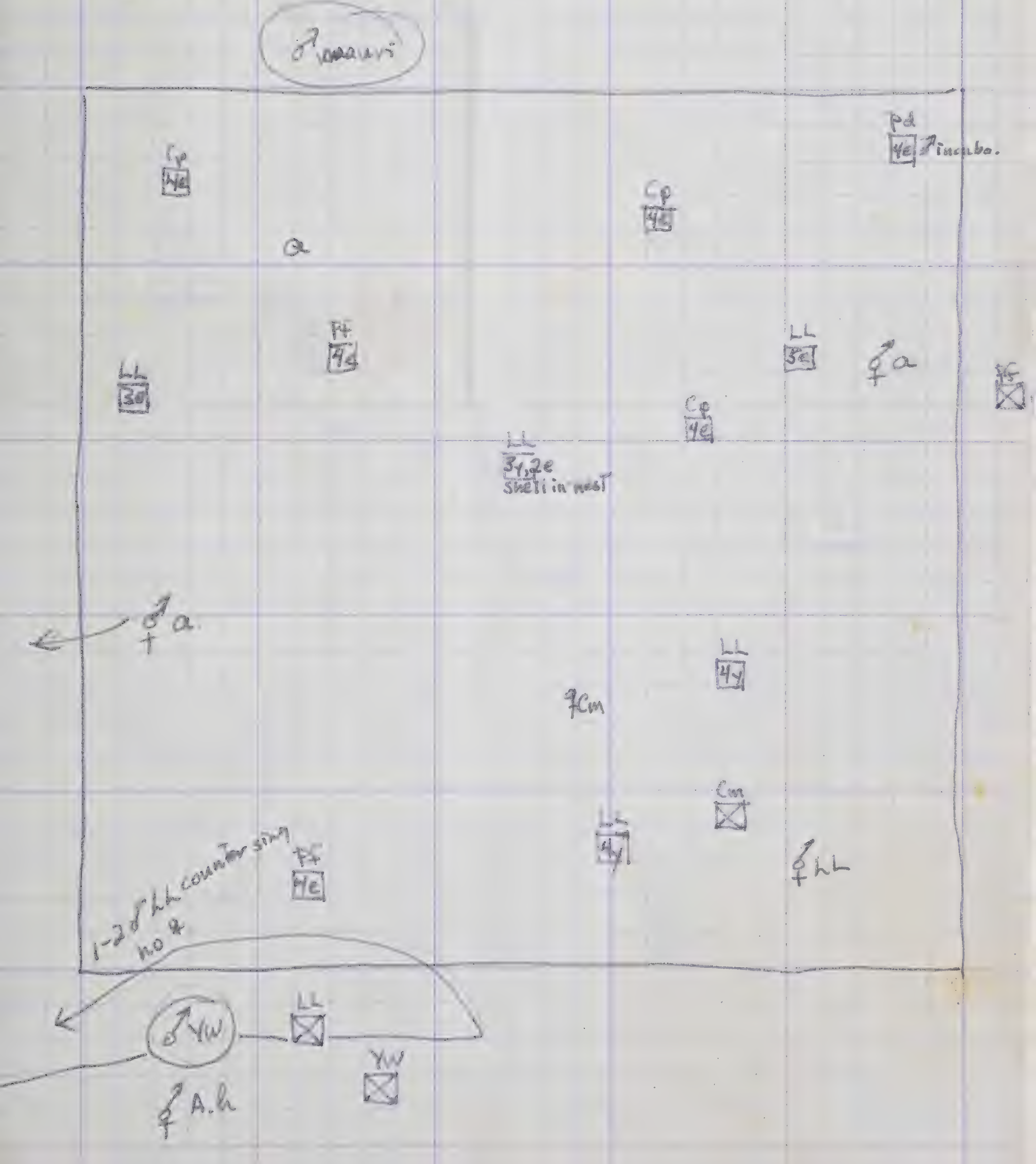
2 Parasitic Jaeger hunting on plot
Visitor - Arctic Tern.

note ♂ C. pusillus off plot to NE.

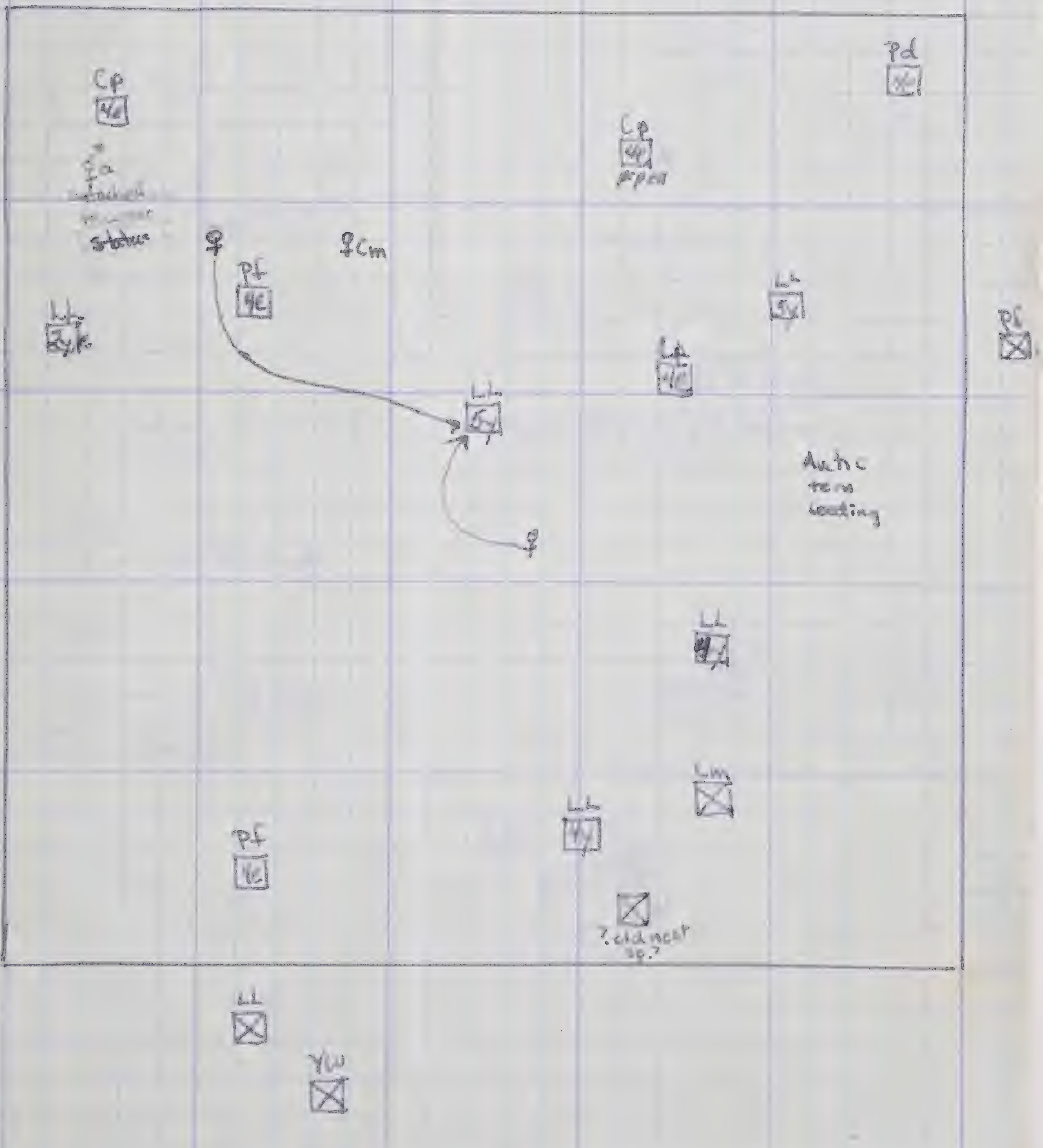


28 June 1966 — 9:30 to 1 P.M.

♂ Parasitic Jaeger over plot.
no other visitors —



3 July 3 to 5 PM.
Overcast and windy.
Visitor Y. Wagtail - 1
Par. Jaeger - 1



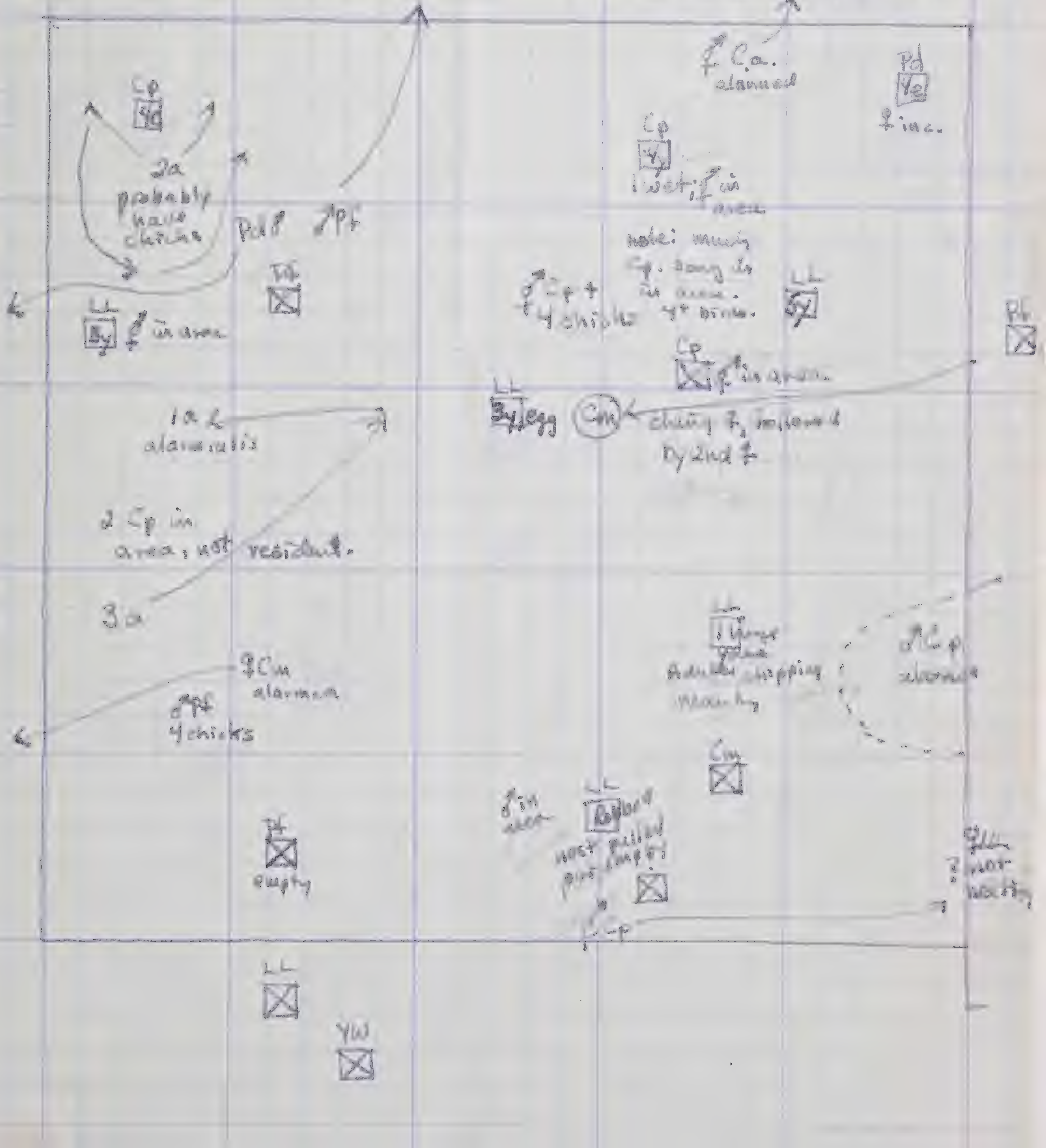
6 July

8 to 11:30 P.M. calm, overcast

Visitors — 2-3 ♀, 4-5 ♂ LL
1 L-t. Jaeger
1 Yellow Wagtail

2-3 Cp.
2-3 Ca.
2-3 Cm.
} noted on map.

♂ L. scolopaceus flew over

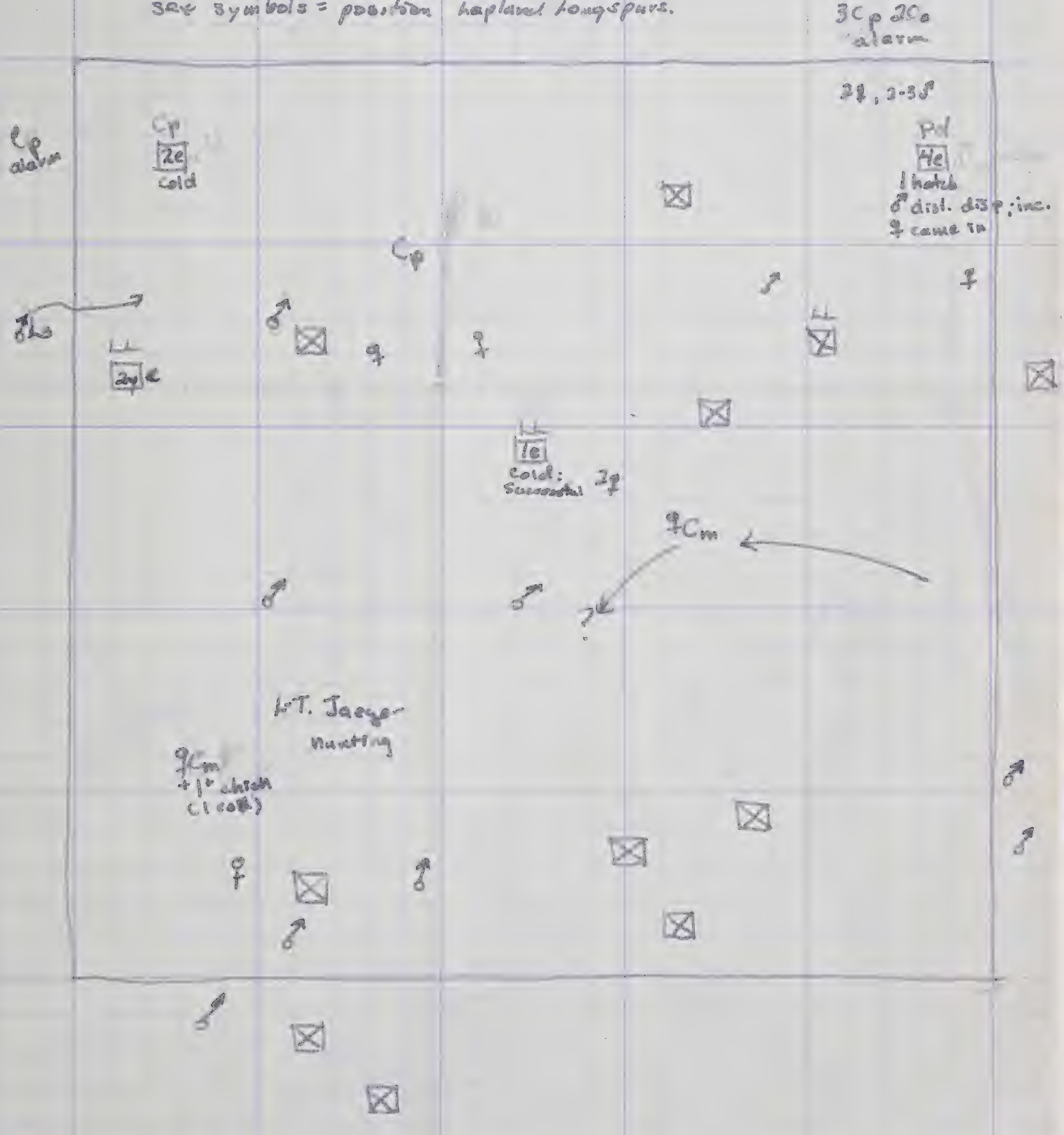


9 July 9:30 to 11:15 cold, windy, overcast
no song

Visitors

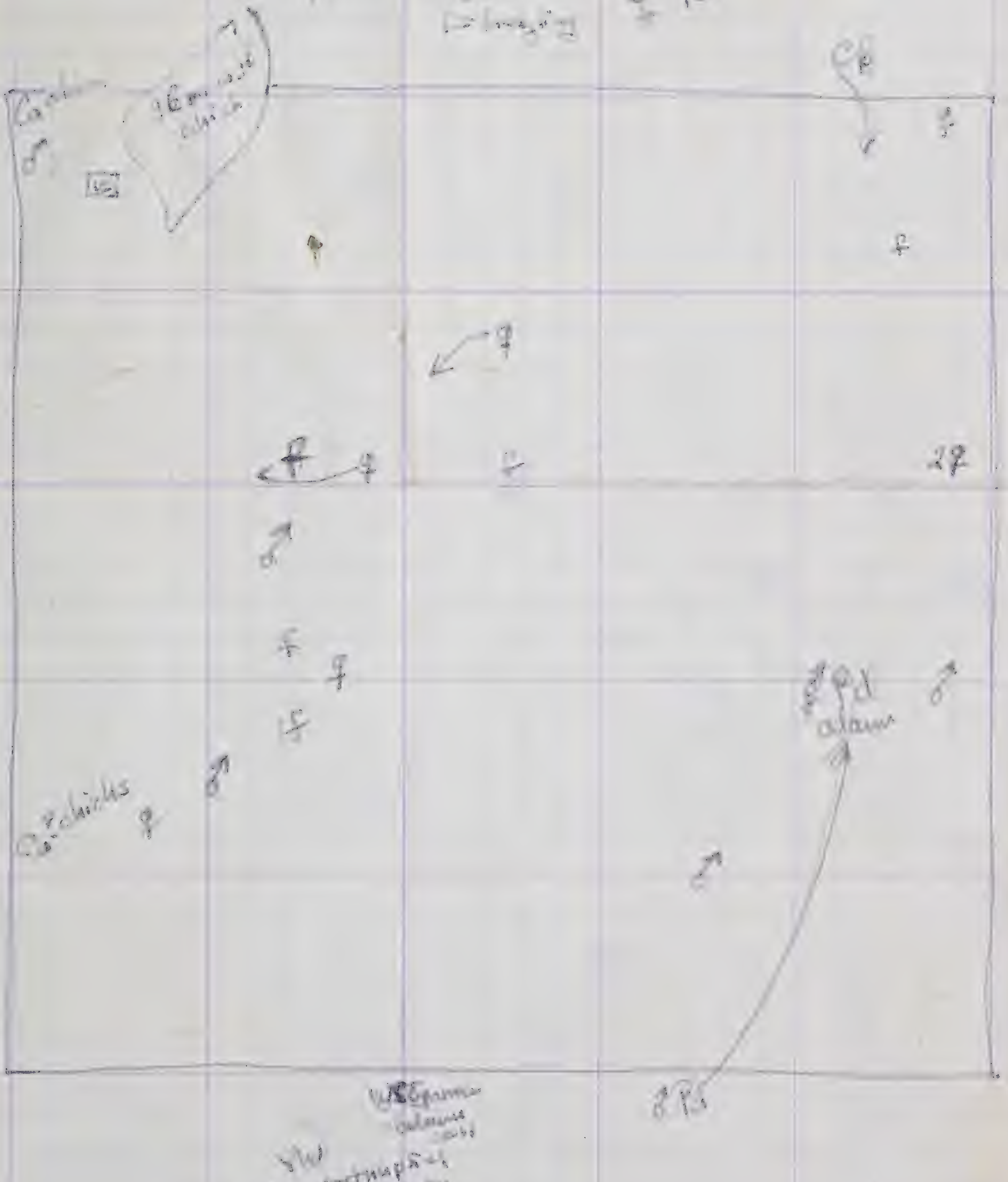
1 Par. Jaeger } flew over
1 L-T. Jaeger

sex symbols = position Lapland Longspurs.



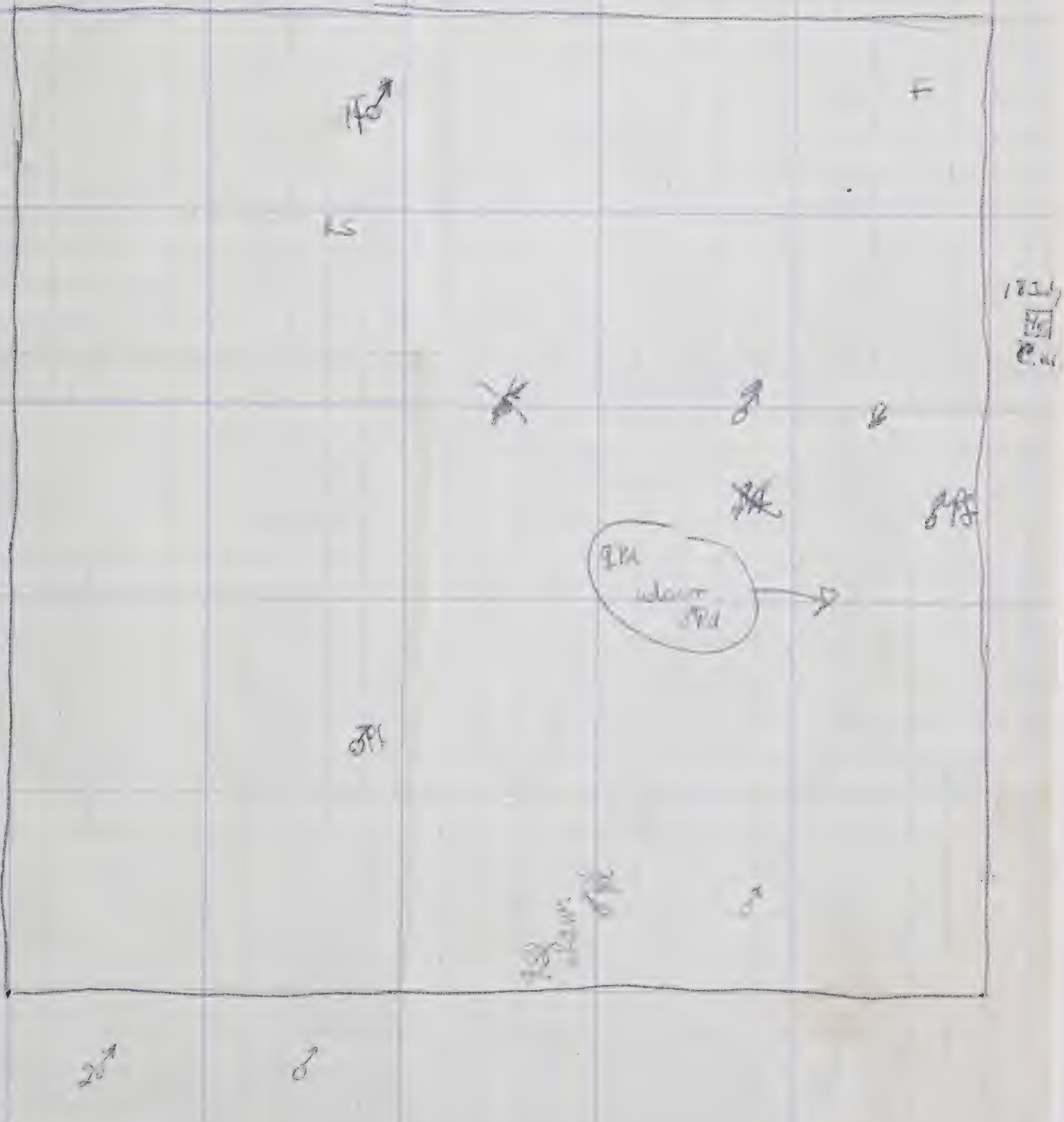
13 July

1100 - 1230 overcast, windy
Uganda ; Bwindi Impenetrable
[illegible] Imaging

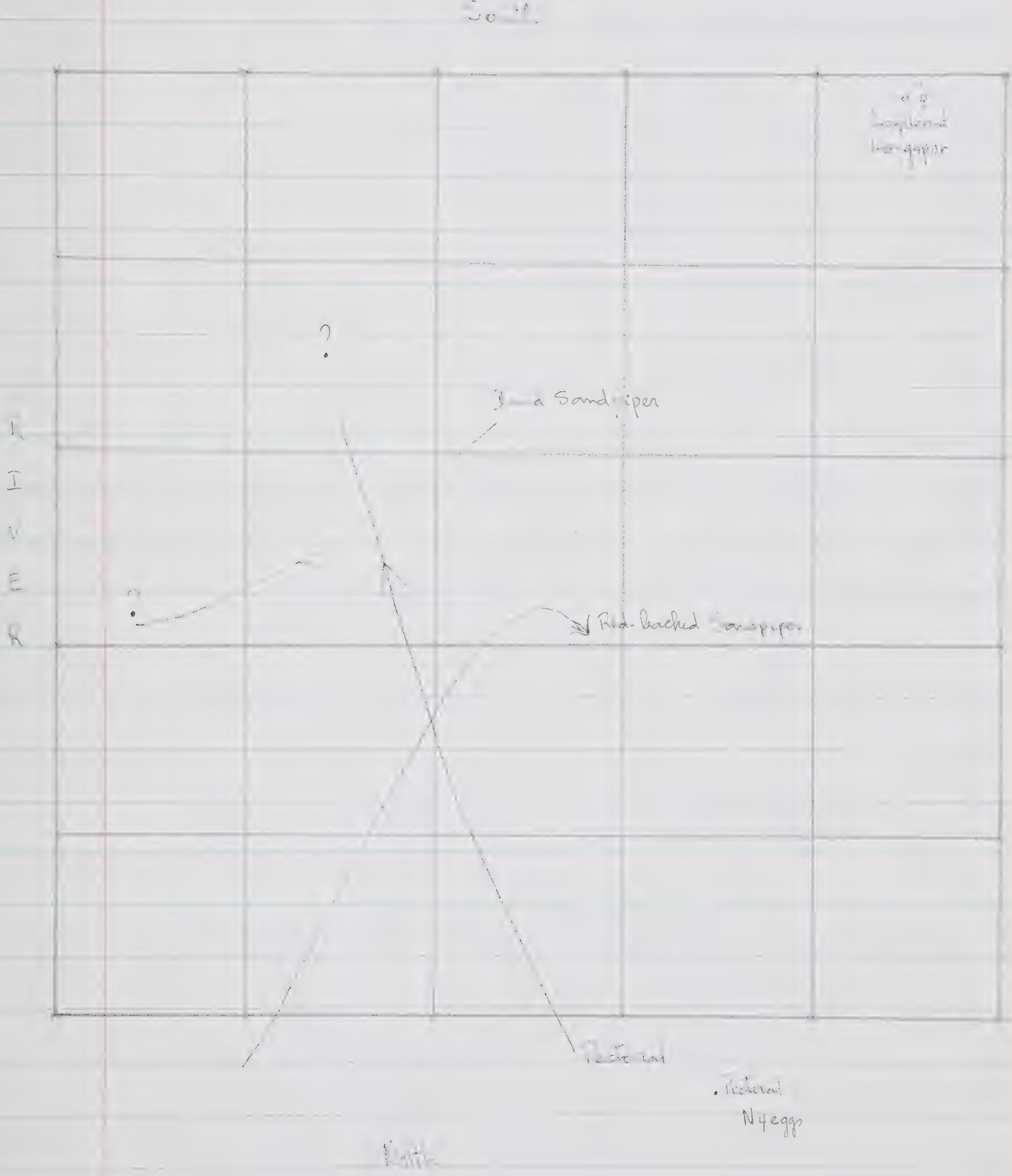


17 July 10 to 12:30 AM
overcast, wind

♂, ♀, f = long spur position



30 July 1966
12:30–14:00



7 8899